MARITIME HERITAGE MINNESOTA

CLEAN WATER LAND & LEGACY AMENDMENT

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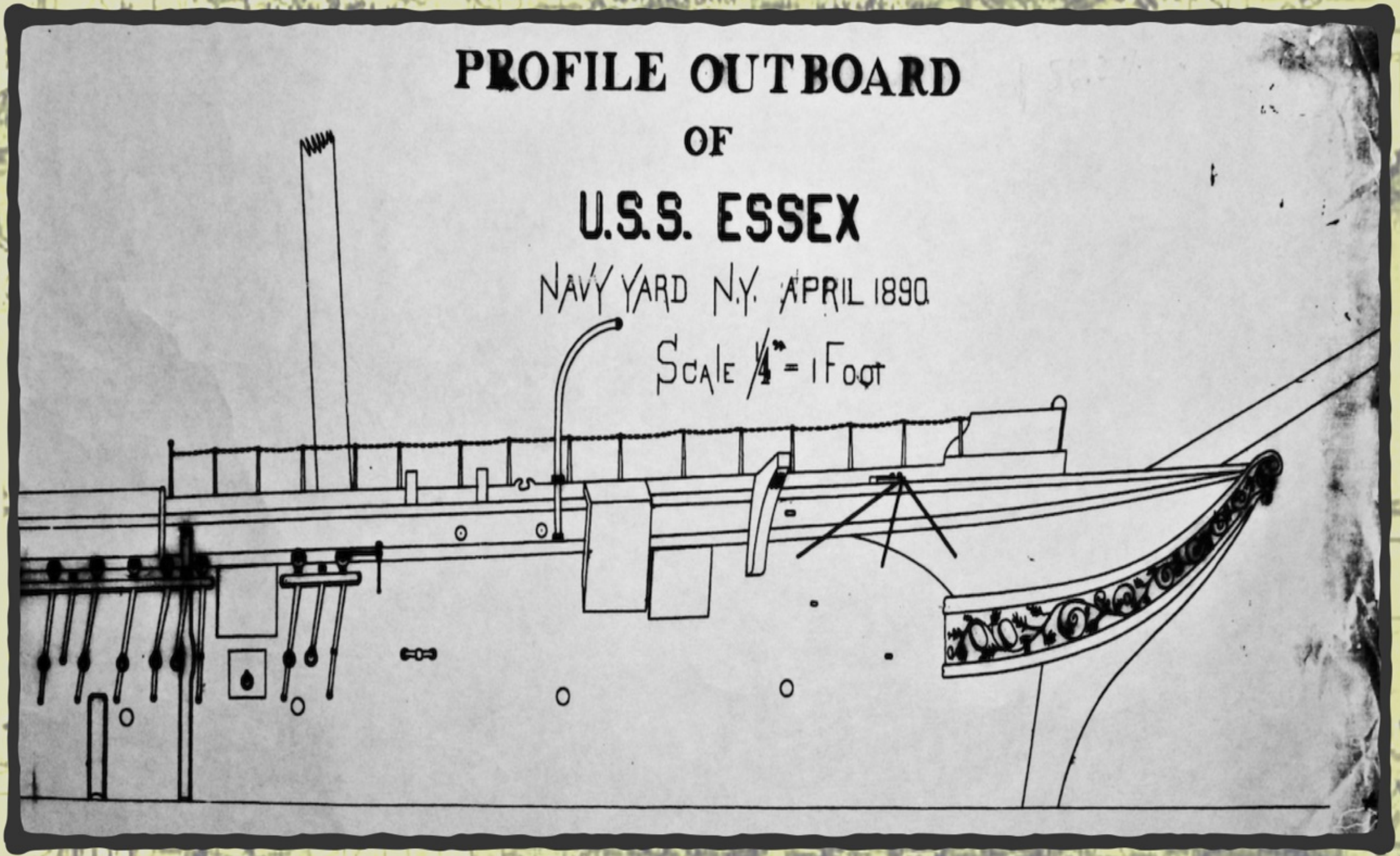
Log Books 17-18 of the USS Essex

December 17, 1883 – June 21, 1884

The Day-to-Day Operations of Shipbuilder Donald McKay's Last Ship


PROFILE OUTBOARD
OF
U.S.S. ESSEX
NAVY YARD N.Y. APRIL 1890
Scale 1/4" = 1 Foot

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USS *Essex* Log Books 17-18

Finding Aid

Adams class ship USS *Essex* (IX-10) was designed and constructed by premier North American shipwright Donald McKay. Her keel was laid down in 1874 and she was launched in 1876. She was a three-decked wooden screw steamer sloop-of-war with auxiliary sail (bark-rigged). She was 185 feet long, 35 feet in the beam, had a 14.25-foot draft, and was 1,375 tons. When commissioned, she carried six big guns, all muzzle loaders: one XI-inch and four IX-inch Dahlgren Naval Artillery guns, and one 60-pound Parrott Rifle The ship's armory carried dozens of small arms including rifles, pistols, revolvers, and cutlasses. Further, she carried a six auxiliary boats including a launch, two cutters, a whale boat, one gig, and a dinghy. The combinations of guns and watercraft carried on board USS *Essex* could change from log book to log book. She served with the US Navy in active duty and as a training ship with the Ohio Naval Militia, the Illinois Naval Militia, and the Minnesota Naval Militia. She was intentionally burned on Minnesota Point in Lake Superior at Duluth in 1931. Her Minnesota Archaeological Site Number is 21-SL-1030 and she is a National Register of Historic Places Property.

Maritime Heritage Minnesota digitized the 62 known USS *Essex* log books held at the National Archives in Washington, DC, and at the US Naval Academy in Annapolis in 2010. The log books consist of the daily activities on board the *Essex* as recorded by deck officers on duty. Those deck notes were then transcribed to be the official log of the *Essex* that were sent to the Navy Department in Washington, DC, where they were bound into their current book form. At the beginning of most log books, there are: a title page, two list of officers pages, a crew complement page (listing the crew by rank and job), an armaments page (list of the different large guns, boats, and small arms), and two pages of compass observations. Not all log books contain these pages and some include additional information, including a plan and section of the *Essex* in Log Books 8 and 9 and four pages of directions on how to fill out log pages in Log Book 21. Sometimes two transcribed versions of log pages were sent to the Navy Department and duplicate books were produced. However, sometimes the duplicate books were not bound with exactly the same pages, so some books overlap each other in date. Also, some log book pages have writing too close to its spine edge and after binding, some words and numbers were 'lost' in the spine if the binding remained tight over the decades. Further, it must be kept in mind that the names of ships, both American and foreign, as well as geographical locations usually expressed in different languages will have variations in spelling. With this in mind, the deck officers of the *Essex*, when writing the log pages, may misunderstand what the actual name of a ship or geographical marker actually is and their handwriting may present challenges or be nearly illegible. The digitization and editing of the USS *Essex* log books were made possible with funding provided by the Minnesota Historical and Cultural Heritage Grant program, part of the Arts and Cultural Heritage Fund of the Clean Water, Land and Legacy Amendment.

Log Books 17-18 of the USS *Essex*: December 16, 1883 - June 21, 1884

The National Archives houses USS *Essex* Log Books 17 and 18, near duplicates of each other; one begins in November and ends in early June, while the other begins in December and ends in mid-June. Throughout Log Books 17 and 18, comments were made on:

- sail adjustments with sail type and action specified
- banking of boiler fires in order to put the ship on stand-by for immediate use
- coupling and uncoupling the propellor when the ship was shifting from steam to sail and *vice*-versa
- when under steam the different watches record the average steam boiler pressure and engine revolutions
- lowering of smokestack and proceeded under sail and *vice-versa* when the *Essex* was underway
- when anchored nearly every watch described the state of the anchor cables: crossed ('cross in hawse, stbd chain on top' or 'Elbow in hawse') and often will mention 'clearing the hawse' (the crossed anchor cables were uncrossed)
- casting deep sea lead for soundings
- patent log readings
- water distillation using the ship's boilers to produce freshwater and refilling the freshwater tanks
- coaling of the ship
- weather recording: temperature, wind speed and direction, barometer readings, state of the sea
- recording the ship's behavior (heavy rolling or pitching)
- crew conducting ship maintenance: engine maintenance/repair, general ship cleaning, bilge cleaning and checking pumps, scraping and painting - and sometimes tarring and caulking - the ship's hull and infrastructure, repairing stays, repairing yards and booms, repairing sails, turned and cleaned hammocks and bedding, repairing ground tackle, steam cutter maintenance/repair
- crew conducting drills: target practice with the main battery (great guns), general quarters drills, small arms drills, torpedo drills, abandon ship drills, Gatling gun drills, howitzer drills, skirmishing, battalion drills
- cadet/apprentice drills: heaving the lead drills
- receiving fresh water from shore through pumps or lighter
- receiving provisions and stores: food, medical supplies, clothing, engineering gear, construction
- Quarterly Board of Survey's findings of condemned articles on board (food, equipment) and their fate (food was usually tossed overboard) from the inventories of the different ship's departments (Ordnance, Engineering, Navigation, Equipment, Medical, Pay)
- crew promotions

- crew quarters inspection
- lists of new crew members - recruits or transfers from other ships- taken on board during a cruise
- crew transfers to other ships
- crew members in solitary confinement or other punishments for various infractions, AWOL crew, general and summary court martial proceedings, AWOL crew put in irons
- rewards offered for the return of AWOL crewmen
- Sunday services after the reading of the Articles for Better Government of the Navy

NOTE: The *Essex* deck officers who recorded the daily happenings on the ship often translated the names of non-American ships incorrectly. MHM determined the correct spellings of the ships and those corrections are reflected in the Finding Aid, not the poorly transliterated ship names.

At the beginning of Log Books 17-18, in mid-December 1883, the USS *Essex* was anchored in the Canton River off Shameen Island in Canton, China, under Commander Alexander H. McCormick. *Essex* was assigned to the US Asiatic Squadron. On December 17, the US Consul and the Commanding Officer of the French cruiser *Volta* visited *Essex* and Commander McCormick left the ship and made official visits. Gunboat HMS *Swift* shifted her anchorage off *Essex's* port beam and the sloop-of-war USS *Juinata* left the harbor. Until the end of December, Commander McCormick and his officers exchanged visits and pleasantries with the French and British Consuls, and the Commanding Officers of the French gunboats *Lutin* and *Volta*, British gunboats HMS *Swift* and HMS *Fly*, dispatch ship HMS *Vigilant*, and the German gunboat *Wolf*. The various ships left anchor and returned to the harbor throughout the end of the month. The Hong Kong/Canton/Macau service sidewheel steamer *Hankow* anchored and then left Shameen, along with a Chinese gunboat. On December 20, English steel steamer *Fushun* anchored and bumped into a small junk, but she did not cause much damage. On December 29, the English steamer *Powan* came into the harbor and grounded; she un-grounded after she let go an anchor and a Chinese war vessel anchored on December 31.

Throughout January 1884, USS *Essex* remained at anchor in the Canton River off Shameen, China. On January 2, the *Essex* crew were conducting gunnery drills and rigging spar torpedoes. Two days later, *Essex* nearly collided with HMS *Fly* while swinging at anchor; the crew lowered and boarded the ship's dinghy to fend off the ship using spars provided to them from the *Fly* crew. On January 7, the Engineering Department hoisted the boiler out of the steam cutter for replacement and the next day, the crew exercised at 'abandon ship' drills. On January 16 and 17, the Engineering Crew fitted a new boiler into steam cutter. On January 23. *Essex* sent a party ashore to participate in a sporting event and for the next five days, the crew practiced various drills, performed ship upkeep, mustered at quarters, and the Commanding Officer inspected their bags and hammocks. Commander McCormick and his officers exchanged courtesies with several ship captains throughout January. Also, various ships entered and left the harbor, often exchanging signal salutes with *Essex* using maritime flags: HMS *Vigilant*, HMS *Fly*, gunboats HMS *Linnet* and HMS *Tweed*, Hong Kong/Canton/Macau steamers *Hankow*, *Fushan*, and *Kiu Kiang,* French gunboat *Lutin*, and a Chinese man-of-war.

Throughout February 1884, Commander McCormick and his officers exchanged the usual pleasantries with the other ships in the harbor at Shameen. Regular ship maintenance and repairs also took place during the month. On February 14, paint and paint supplies loaded on the ship's catamaran were lost when the boat capsized. Two days later, one tub - about 33 gallons - of tea oil was lost overboard while hoisting it from a harbor lighter. On February 22, *Essex* was dressed to celebrate George Washington's birthday; out of respect, the French gunboat *Lutin* and British gunboat HMS *Fly* followed suit. That evening, *Essex* was lit with 500 Chinese lanterns purchased by the crew using their own pay. On February 27, the *Essex* crew overhauled the ship's ground tackle (equipment used for anchoring or mooring), and the British Flagship HMS *Vigilant*, flying the flag of Vice Admiral Willes, anchored at Shameen. *Essex* saluted her and Commander McCormick made an official visit to *Vigilant*,. The next day, the crew drilled with howitzers, gatling guns, small arms, and skirmishing. Throughout February, various ships entered and left the harbor, often exchanging signal salutes with *Essex* using maritime flags: French gunboat *Lutin*, English vessels HMS *Tweed*, HMS *Fly*, HMS *Linnet*, and Flagship HMS *Vigilant*, German gunboat *Wolf*, steamers *Kiu Kiang*, *Hankow*, and *Lee Sing*, and a Chinese gunboat.

On March 2, 1884, USS *Essex* up anchored and left Shameen Island, heading down the Canton River for Hong Kong. Along the way, the crew lowered the whale boat to pick up the ship's spyglass that was accidentally dropped overboard. The next day, *Essex* moored in Hong Kong harbor and received official visits from English, Russian, Portuguese, French, German and Italian men-of-war, and she exchanged signals with the sidewheel gunboat USS *Monocacy*. On March 4, *Essex* sent away coal lighters that attempted to deliver fuel to the ship due to the inferior quality of the coal. Commander McCormick spent two busy days paying official visits to: Vice Admiral Dowell on board HMS *Vigilant*, Vice Admiral Willes on HMS *Audacious*, an English Commodore on HMS *Victor Emmanuel*, HMS *Fly,* HMS *Cleopatra*, HMS *Swift,* Admiral Meyer on French Flagship *Victoreuse*, French warships ironclad cruiser *Duguay-Trouin*, ironclad corvette *Triomphante, Volta,* and *Lutin*, Admiral Von de Gotz and a German commodore on board *Stosch*, German frigate *Leipzig*, Italian ship *Christopher Colombo,* Portuguese transport *Africa*, and a Russian corvette. German Admiral Von de Gotz hauled down his pennant from *Stosch* and foreign officers made reciprocal visits to *Essex* over the next few days. The aforementioned ships up anchor and leave harbor at different times throughout March and an American barkentine and mail steamers were mentioned entering and leaving the harbor.

On March 6, four shipwrecked crew members of the American merchant ship *Rainier* came on board *Essex* and were examined by the captain, and rewards paid for the return of AWOL sailors. The next day *Essex* received Henry Whelan, mate of the *Rainier* on board for passage to Ujae Island on the order of Admiral John L. Davis commanding the US Asiatic Squadron. Further, the Governor of Hong Kong visited several ships in the harbor, and was saluted by English and German flagships with 17 guns. On March 8, French steamer *Anadie* anchored in the harbor; *Essex* sent a boat to her to retrieve Lt. Nichols, who had instructions from Admiral Davis regarding *Essex*. Also, official visits were exchanged with the French Flagship ironclad corvette *La Galissonniere*, and *Essex* received the transfer of a crewman from sloop Flagship USS *Richmond*. The next day, Mitsu Bishi steamer *Takashio Maru* anchored with provisions for *Essex*, and AWOL sailors were returned by Hong Kong police, who received the offered bounty.

On March 10, *Essex* left Hong Kong for Nagasaki Japan, passing Cape Aguilar Light and Pinnacle Rock, and Lamock Island Light along the way. On March 12, *Essex's* engineer stopped the engine temporarily to set up the main crank pin and the next day, the ship passed the White Star steamer *Arabic*. Over the next few days, *Essex* passed Ocsien and Turnabout Island Lights, a British steamer, and engaged in target practice with her great guns. On March 16, morning fog called for *Essex* to blow her steam whistle every five minutes for safety; the fog cleared in the afternoon. The next day, *Essex* sighted Nagasaki Light and anchored in Nagasaki Harbor. On March 18, a ship's officer visited the US Consul and boarded the American barque *B.F. Watson*, and Commander McCormick paid official visits on shore. On March 20, *Essex* left Nagasaki Harbor for Ujae Island in the Marshall Group. The next day she passed a Japanese brigantine that dipped her colors, a civility returned by *Essex*. While sailing, the port fore topmast stunsail boom was carried away, caused by human error. On March 23, the Engineering Crew plugged the surface blowpipe on the starboard side to stop a leak. Two days later, the starboard-fore topgallant sheet was carried away; in response, sailors took in the sail and rove off the sheet afresh and then re-set the sail. Until the end of March, the log book recorded the weather conditions, ship maintenance, and sail configurations, although on March 30 the main topsail yard was sprung and repairs were made.

In early April 1884, USS *Essex* continued sailing toward Ujae Island. On April 5, her main topgallant sail tore; the sail was taken in and repaired. Over the next five days, the crew kept busy conducting drills and exercises, while apprentice seamen were instructed in signals. On the evening of April 10, the crew witness a total lunar eclipse. On April 13, *Essex* fired two guns to attract the attention of the shipwrecked crew of the merchant ship *Rainier* on Ujae Island. Commander McCormick sent boats ashore to bring off the ship's crew. At that time, he learned that half the crew - under the command of Captain S. H. Morrison - had sailed for Jaluit Atoll a month previously; the crew had constructed a small schooner and left Ujae. The log books lists the *Rainier's* survivors, and recorded that the native Marshall Islanders were rewarded for their kindness and hospitality. For the next two days, *Essex* set the course for Jaluit Island to look for the remainder of the *Rainier* crew. On April 16, *Essex* anchored in Jaluit Island harbor and received a visit from the US Consul. The *Rainier's* Captain Morrison boarded *Essex* for passage to Yokohama; the remainder of his crew that came down to the island with him were sent to Hong Kong on a German barque. *Essex* took on coal and Commander McCormick visited the US and German Consuls; the ship left for Yokohama on April 19.

The remainder of the month was spent heading toward Yokohama, with the crew performing regular ship maintenance, cleaning, and drills.

On May 5, *Essex* headed into Yeddo Bay and anchored in Yokohama Harbor and an officer visited with the US Consul. On May 6, the *Rainie*r survivors visited the US Consul and the next day, the captain and first mate of the wrecked ship left *Essex* to live on shore. On May 15, *Essex* received a crewman on board who was ultimately bound for sloop-of-war Flagship USS *Enterprise*, a sister ship of USS *Essex*. Throughout the first half of May, *Essex* took notice of several ships that arrived, anchored, and left port: American bark *B.F. Watson*, American ship *Pactolus*, and American ship *Lucile* out of New York, corvette HMS *Sapphire*, Japanese gunboat *Saiki*, several Japanese steamers, a Peninsular and Oriental Steam Navigation Company vessel*,* a German bark, and a mail steamer from Shanghai and Hong Kong. On May 20, *Essex* raised anchor and stood down Yeddo Bay. Two days later, the passed Kobe light and anchored in Kobe Harbor. For the next two days, official visits were exchanged and during a general quarters drill, one Remington pistol was lost overboard. On May 24, the crew dressed the ship with British flag at the fore in honor of Queen Victoria's birthday; however, *Essex* had to haul down rainbow flags early on account of heavy winds. *Essex* also received an official visit from Governor of Kobe Province. On May 27, the fore topgallant yard broke loose while being hauled up and fell overboard; no injuries or damage was reported. The yard was retrieved and re-hoisted. Other ships noted in late May included the American ships *Kennebec* and *John A. Briggs** from Philadelphia, and two mail steamers.

On June 1, *Essex* up anchored and left Kobe Harbor and stood through the Inland Sea, swinging the ship to check for compass deviation when necessary. She worked her way through Shimonoseki Strait and anchored in Nagasaki Harbor on June 4, passing a number of lighthouses along the way. During the month, *Essex* exchanged the expected visits with on-shore diplomats and ships including iron gunboat USS *Alert*, corvette HMS *Cleopatra*, corvette HMS *Sapphire*, German corvette Flagship *Stosch*, corvette *Iltes*, and corvette *Prinz Adalbert*, Russian corvette *Nyadzdorick,* cruiser *Abrek 5**,* and cruiser Flagship Minin***, Japanese corvette *Nishin,* and Japanese gunboat *Riding*. Mail steamers from Yokohama and Shanghai entered and left the harbor. On June 7, *Essex* moved into drydock and the ship's Engineer Force and dock workmen repaired valves & pipes that connected with the outside of the vessel. The work crew also repaired valves and pipes on the outer hull and made repairs to the copper sheathing. Two days later, *Essex* left drydock and steamed to her anchorage and took bearings off Kasaki Point, and Commander McCormick paid a visit to the Pay Master in charge of the US Naval Storehouse. On June 12, Commander McCormick called all hands to muster and read a letter from the Secretary of Navy commending the gallant conduct of George Hittinger in rescuing a shipmate from drowning on October 25, 1883. Two days later, crewman John Davidson was transferred to the USS *Alert* by order of Rear Admiral Davis, and an *Alert* a seaman condemned by the Medical Survey boarded *Essex* to be sent home and discharged. On June 17-18, crew exercises included an order that called away all boats armed and equipped for distance service, general quarters was called and there were drills at the great guns and sail handling. On June 21, Flagship USS *Enterprise* entered harbor late in the day under command of Rear Admiral Davis and exchanged signals with *Essex*. Due to the presence of Admiral Davis, *Essex* Hauled down the Senior Officer pennant of Commander McCormick from her mast.

*American ship John A. Briggs's homeport was actually Portland but she was came from Philadelphia carrying a cargo of kerosene.
**The log book spelled *Abrek 5* as *Abreck*.
***The log book spelled *Minin* as *Minine*.

Tags:
American Ships: iron gunboat USS *Alert*, barque *B.F. Watson*, sloop-of-war Flagship USS *Enterprise*, sloop-of-war USS *Essex*, merchant ship *John A. Briggs*, sloop-of-war USS *Juniata*, merchant ship *Kennebec*, merchant ship *Lucile*, sidewheel gunboat USS *Monocacy*, merchant ship *Pactolus*, merchant ship *Rainier,* sloop Flagship USS *Richmond*

British Ships: White Star steamer *Arabic*, ironclad Flagship HMS *Audacious*, corvette HMS *Cleopatra*, gunboat HMS *Fly*, gunboat HMS *Linnet*, steamer *Powan*, corvette HMS *Sapphire*, gunboat HMS *Swift*, gunboat HMS *Tweed*, ship of the line steamer HMS *Victor Emmanuel*, dispatch ship HMS *Vigilant*

French Ships: steamer *Anadie*, ironclad cruiser *Duguay-Trouin*, ironclad corvette Flagship *La Galissonniere*, gunboat *Lutin*, cruiser *Tourville*, ironclad corvette *Triomphante*, corvette Flagship *Victorieuse*, cruiser *Volta*

German Ships: corvette *Iltes*, frigate *Leipzig*, corvette Flagship *Stosch*, gunboat *Wolf*

Hong Kong/Canton/Macau Service Ships: sidewheel steamer *Hankow*, steel steamer *Fushan*, steamer *Kiu Kiang*, steamer *Lee Sing*

Italian Ship: ship *Christopher Colombo*

Japanese Ships: corvette *Nishin*, gunboat *Riding*, Mitsu Bishi steamer *Takashio Maru*

Portuguese Ship: transport *Africa*

Russian Ships: cruiser *Abrek 5*, cruiser Flagship *Minin*, corvette *Nyadzdorick*

USS *Essex*

Contd 3rd Ret[illegible]

[illegible] 18[illegible] A.L. [illegible] B.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

LIST OF OFFICERS

Attached to and on board of the U. S. Steamer "Essex", 3d Rate, commanded by Commander A. H. McCormick, U. S. N., at the time of leaving the anchorage at League I. Phil^a Pa the 19 day of November, 1881.

NAME.	RANK.	NAME.	RANK.
A. H. McCormick	Commander		
M. R. S. Mackenzie	Lieutenant		
W. H. Parker	Lieutenant		
Wainwright Kellogg	Lieutenant		
Karl Rohrer	Lieutenant		
Corwin P. Rees	Lieutenant		
W. M. Irwin	Master		
R. B. Dashiell	Cadet Mid^n		
Henry C. Haines	Cadet Mid^n		
Geo. P. Blow	Cadet Mid^n		
George Barnett	Cadet Mid^n		
W. LeRoy Emmet	Cadet Mid^n		
M. L. Ruth	Surgeon		
L. A. Yorke	P. A. Paymaster		
D. P. McCartney	Chief Engineer		
F. J. Hoffman	P. A. Engineer		
M. Bevington	Asst Engineer		
D. C. Redgrave	Cadet Engineer		
W. H. Gartley	Cadet Engineer		
O. C. Berryman	1st Lieut. U S M C.		
Jacob Harder	Pay Clerk.		

Examined and found to be correct.

W. H. Parker
Lt & Navigator.

LIST OF OFFICERS,

Who have died, been detached, or transferred, on board the U. S. S. Essex. 3d Rate.

commanded by Comdr A. H. McCormick, U. S. N., during a cruise on the

Station from November 19, 1881, to ~~end of cruise~~ June 11th, 1884.

NAME.	RANK.	TIME OF OCCURRENCE, AND PARTICULARS.
H. O. Dunn	Ensign	Reported for duty October 19. 1882
Jacob Harder	Pay Clerk	Resigned October 26. 1882.
Chas E. James.	Pay Clerk	Reported for duty March 10. 1883.
R. B. Dashiell	Naval Cadet	Detached March 24. 1883
H. C. Haines	Naval Cadet	" " " "
Geo. P. Blow	Naval Cadet	" " " "
Geo. Barnett	Naval Cadet	" " " "
W. L. Emmet	Naval Cadet	" " " "
D. C. Redgrave	Naval Cadet	" " " "
W. H. Gartley	Naval Cadet	" " " "
Thos C. Prince	Naval Cadet	Reported for duty March 21. 1883
John J. Blandin	Naval Cadet	" " " " "
Albert L. Key	Naval Cadet	" " " " "
Philo N. McGiffin	Naval Cadet	" " " " "
Thos. C. Prince	Naval Cadet	Detached April 27. 1883
John J. Blandin	Naval Cadet	" " " "
Albert L. Key.	Naval Cadet	" " " "
Philo N. McGiffin	Naval Cadet	" " " "
H. O. Dunn	Ensign	" Octr 29. 1883
R. O. Bitler	Ensign, Jr Grade.	Reported for duty November 21. 1883
W. C. P. Muir	Ensign. Jr Grade	" " " " "

Examined and found to be correct.

W. H. Parker

Navigator.

COMPLEMENT of Petty Officers, Seamen, Ordinary Seamen, Landsmen, Boys, and Marines on board of the U. S. S, "Essex", 3d Rate at first commissioning, November 12th, 1881. at League Island. Pa.

RATES.	NUMBER.	RATES.	NUMBER.
Chief boatswains mate	1	Bugler	1
Boatswains mates	3		
Chief gunner's mate	1		
Chief quartermaster	1		
Quartermasters	3		
Coxswains	3		
Captains of forecastle	2		
Captains of top	4		
Captains of afterguard	2		
Quarter-gunners	3		
Carpenter's mates	1		
Sailmaker's mates	1		
Armorer	1		
Captains of hold.	1		
Ships cook	1		
Ships corporal	1		
Cooper	1		
Carpenters & Caulkers.	2		
Bayman	1		
Master at Arms	1		
Apothecary	1		
Ship's Yeoman	1		
Paymaster's yeoman	1		
Engineer's yeoman	1		
Schoolmaster	1		
Ship's writer	1		
Ships blacksmith	1		
Painter. 2d Class.	1		
Jack of the Dust	1		
Cabin Steward	1		
Cabin Cook	1		
Wardroom steward	1		
Wardroom Cook	1		
Steerage steward	1		
Steerage Cook	1		
Seamen	10		
Ord. Sea.	11		
Landsmen.	23		
Boys. (Apprentices.)	33		
Finishers.	2		
Boilermaker	1		
Engineers blacksmith	1		
1st Cl. Firemen	6		
2 " "	7		

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

PLANS AND SECTIONS OF

Commanded by A. H. McCormick, Commander U.S.N.

No change

THE U. S. S. "Essex," 3d Rate.

furnished at the Navy Yard League I. Pa. November 12th 1884

No Change.

ARMAMENT

Of the U. S. S. "Essex," 3d Rate.

NO. OF GUNS.	CALIBER.	DESCRIPTION.	WEIGHT.
4	IX in	Muzzle Loading	9155 lbs.
1	5.3 in	60 pdr B. L. R.	5400 "
1	462 in	12 pdr. M. L.	760 "
1	8 in	M. L. Rifle.	17425 "
1	3 in	B. L. Rifle	350 "
1	.45	Short Gatling	421

BOATS.

1 Steam Cutter
1. Sailing Launch
1. Cutter
2. Whale Boats
1 Gig
1. Dinghy

SMALL ARMS.

60 Hotch. Mag. Rifles
13 Colts Rvlvrs.
43 Remington Pistols.

Examined and found to be correct.

W. H. Parker
Lieut Navigator.

OBSERVATIONS for determining the LOCAL DEVIATION of the Compass on board the U. S. S

DATE: , 18 . **PLACE:**

Magnetic Variation, *degrees* *minutes, at same time and place.*

LANDMARK OBSERVED.		BEARINGS TAKEN BY Compass.		LOCAL DEVIATION.	LOCAL DEVIATION CORRECTED FOR VARIATION (+ OR −).
Name of Landmark.	True Magnetic Bearing by Chart or Astronomical Observation.	Ship's Head.	Landmark Observed.		
		NORTH.			
		N. by E.			
		N. N. E.			
		N. E. by N.			
		N. E.			
		N. E. by E.			
		E. N. E.			
		E. by N.			
		EAST.			
		E. by S.			
		E. S. E.			
		S. E. by E.			
		S. E.			
		S. E. by S.			
		S. S. E.			
		S. by E.			
		SOUTH.			
		S. by W.			
		S. S. W.			
		S. W. by S.			
		S. W.			
		S. W. by W.			
		W. S. W.			
		W. by S.			
		WEST.			
		W. by N.			
		W. N. W.			
		N. W. by W.			
		N. W.			
		N. W. by N.			
		N. N. W.			
		N. by W.			
		NORTH.			
		N. N. E.			
		N. E.			
		E. N. E.			
		EAST.			
		E. S. E.			
		S. E.			
		S. S. E.			
		SOUTH.			
		S. S. W.			
		S. W.			
		W. S. W.			
		WEST.			
		W. N. W.			
		N. W.			
		N. N. W.			

Examined and found to be correct.

Navigator.

OBSERVATIONS for determining the LOCAL DEVIATION of the Standard

Compass on board the U. S. S Essex 3rd Rate

DATE: June 1st, 1884 PLACE: Lat 34°05' N Long 133°30' E

Magnetic Variation, 4 *degrees* 05 *minutes, at same time and place.*

LANDMARK OBSERVED. az O by Comp.		~~BEARINGS TAKEN BY~~ Mag az. O by time azimuth Compass.		~~LOCAL DEVIATION.~~	LOCAL DEVIATION CORRECTED FOR VARIATION (+ or −).
Name of Landmark.	True ~~Magnetic~~ Bearing by Chart or Astronomical Observation.	Ship's Head.	~~Landmark Observed~~ O	Errors of Compass	
	N 76°.5 W	NORTH.	N. 81°.3 W	4°.8 W	0°.8 W
	76.8	N. by E.	80.8	4.0	0.0
	77.0	N. N. E.	80.3	3.3	0.7 E
	77.0	N. E. by N.	79.8	2.8	1.2 "
	77.3	N. E.	79.2	1.9	2.1 "
	77.0	N. E. by E.	78.3	1.3	2.7 "
	76.5	E. N. E.	78.0	1.5	2.5 "
	76.0	E. by N.	77.7	1.7	2.3 "
	75.5	EAST.	77.1	1.6	2.4 "
	—	E. by S.	—	—	—
	—	E. S. E.	—	—	—
	72.8	S. E. by E.	75.6	2.8	1.2 "
	72.0	S. E.	74.9	2.9	1.1 "
	71.5	S. E. by S.	74.4	2.9	1.1 "
	70.8	S S. E.	73.9	3.1	0.9 "
	70.3	S. by E.	73.3	3.0	1.0 "
	87.5	SOUTH.	90.4	2.9	1.1 "
	87.0	S. by W.	89.9	2.9	1.1 "
	86.3	S. S. W.	89.2	2.9	1.1 "
	85.5	S. W. by S.	88.6	3.1	0.9 "
	84.0	S. W.	87.9	3.9	0.1 "
	83.0	S. W. by W.	87.4	4.4	0.4 W
	81.8	W. S. W.	86.9	5.1	1.1 "
	81.0	W. by S.	86.2	5.2	1.2 "
	79.5	WEST	85.9	6.4	2.4 "
	78.0	W. by N.	85.2	7.2	3.2 "
	77.5	W. N. W.	84.5	7.0	3.0 "
	77.0	N. W. by W.	84.0	7.0	3.0 "
	76.5	N. W.	83.5	7.0	3.0 "
	76.3	N. W. by N.	82.7	6.4	2.4 "
	76.3	N. N. W.	82.2	5.9	1.9 "
	76.3	N. by W.	81.6	5.3	1.3 "
		NORTH.			
		N. N. E.			
		N. E.			
		E. N. E.			
		EAST.			
		E. S. E.			
		S. E.			
		S. S. E.			
		SOUTH.			
		S. S. W.			
		S. W.			
		W. S. W.			
		WEST.			
		W. N. W.			
		N. W.			
		N. N. W.			

Examined and found to be correct.

W. H. Parker
Lieut
Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3rd* Rate, *6* Guns,
Anchored off Canton, China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M. 1	Flood		E.S.E	Variable	0-1		30.28	64	60	57		bcm	cir	9	S	
2	"		"	"	0-1		30.27	64	59	56		"	"	9	"	
3	"		"	"	0-1		30.27	63	59	56		"	"	9	"	
4	"		"	Calm	0		30.27	63	59	56		"	"	9	"	
5	"		"	"	0		30.28	61	59	53		"	"	9	"	
6	Ebb		West	"	0		30.28	61	56	54		"	"	9	"	
7	"		W by N.	Variable	0-1		30.28	61	56	54		"	"	9	"	
8	"		"	"	0-1		30.30	61	58	55		"	"	9	"	
9	"		"	N.	0-1		30.32	62	59	56		"	"	9	"	
10	"		"	"	0-1		30.32	62	60	57		bc	"	9	"	
11	"		"	"	0-1		30.32	63	62	58		"	"	9	"	
Noon.	"		"	"	0-1		30.30	64	64	58		"	"	9	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *280* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2820* "

Coal consumed during the preceding 24 hours *1* tons *1360* lbs.

Coal remaining on hand at Noon *147* " *680* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M. 1	Ebb		W.N.W	West	1		30.28	65	67	60		bc	cir cum	7		
2	Swinging to Flood		E.S.E.	"	1		30.25	66	67	61		"	"	4		
3	"		"	S.W.	1		30.23	66	67	61		"	"	3		
4	"		"	"	1		30.22	66	67	61		"	"	2		
5	"		"	"	1		30.22	66	67	61		"	"	4		
6	Swinging to Ebb		W.S.W.	Calm	0		30.23	66	67	61		"	cir cum and cum	2		
7	"		"	"	0		30.25	67	68	64		"	"	2		
8	"		W by N.	"	0		30.25	67	68	64		"	"	3		
9	"		"	"	0		30.27	67	67	63		"	"	3		
10	"		"	"	0		30.28	67	67	62		"	"	6		
11	Swinging to Flood		"	"	0		30.28	66	66	62		"	"	7		
Mid.	"		E.S.E	"	0		30.28	66	65	61		"	"	4		

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Monday December 17th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Bright moonlight. Light variable airs and calms. Barometer steady. Riding to flood tide. Strength of tide at 4 oo 1-5. Knots. The U.S.S. "Juinata" got under way and left the harbor at 2.50. Aneroid at end of watch 30.40.

C. P. Rees Lieut.

4 to 8. A.M. Hazy and pleasant weather with variable airs and calms. Slack water at 4.30. and at 5.45. finished swinging to ebb tide. Banked fires under four forward boilers at 7 40. Cleared hawse. Barometer steady. Aneroid 30.46

Wainwright Kellogg WK Lieut.

8. A.M. to Meridian. Weather clear and pleasant. Light airs from North. Barometer steady. Cirrus clouds. Riding to Ebb tide. Put on mooring swivel. Mustered and inspected crew at quarters, and afterwards had battalion drill and the divisional exercises. The British Gun boat "Swift," shifted her anchorage, and moored off our port beam. The U.S. Consul visited the ship. The Captain left the ship to make official visits. By order of Captain confined Thas Carroll. (2c Mw) in solitary confinement on bread and water, for five days for being intoxicated on board Ship. Aneroid Barometer 30.42. Hauled fires except two under forward starboard boilers, and lowered smoke stack. William Spellman, (Sea) absent without leave.

Karl Rohrer, KR Lieut.

Meridian to 4 P.M. Weather cloudy and pleasant. Light airs from Wd. Barometer falling. At 1 oo commenced swinging to flood tide. Strength of tide at 2 oo 1-4. Knots. Finished swinging at 1:45. Got in Launch at 1:45. The Comdg Officer of the French Man-of-war "Volta," visited the ship officially at 3.20. Aneroid at end of watch 30.32.

C. P. Rees Lieut.

4 to 8. P.M. Weather pleasant. Calm in latter part of watch. Barometer rising. Sent down royal and topgallant yards, and masts at 4.30. Mustered at quarters at 4.45. and issued clean hammocks. Slack water at 5.30. Swung to ebb at 6 oo. Fires banked under forward starboard boilers. Wm Spellman. (Sea) returned to ship at 4.15. eighty five hours over his leave. Aneroid Barometer 30.38.

Karl Rohrer, KR Lieut.

8. P.M. to Midnight. Weather partly cloudy and pleasant. Calm. Barometer steady. Began swinging to flood tide at 11 oo. Finished at 11.50. Aneroid at end of watch 30.38.

C. P. Rees Lieut.

Moon l mid
Dec 12°-16'-14" N
Phase: Full Moon.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Swinging to Flood		E.S.E.	E.N.E	1		30.29	65	65	61		bc	cum & cir cum	2	S	
2	"		"	Calm	0		30.29	65	65	61		"	"	1	"	
3	"		"	"	0		30.29	65	65	61		oc	cum	0	"	
4	"		"	E.N.E	1		30.29	65	65	61		"	"	0	"	
5	"		"	Calm	0		30.30	65	65	61		"	"	0	"	
6	Swinging to Ebb		West	"	0		30.30	65	65	61		"	cir cum	0	"	
7	"		W.N.W.	S.E	1		30.30	65	65	61		bc	"	2	"	
8	"		W. by N.	E. by S	1		30.34	65	63	59		"	"	1	"	—
9	"		"	"	1		30.35	65	64	59		"	"	2	"	
10	"		"	"	1		30.35	66	66	59		"	"	3	"	
11	"		"	"	1		30.35	66	66	59		"	"	3	"	
Noon.	"		"	"	1		30.33	66	66	59		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2520 "

Coal consumed during the preceding 24 hours tons 1500 lbs.

Coal remaining on hand at Noon 146 " 1620 "

P. M.																
1	Ebb		W by N.	S. E.	1		30.31	67	69	60		bc	cir cum	5	S	
2	Swinging to Flood		E.S.E	"	1		30.31	68	69	60		"	"	5	"	
3	"		"	"	1		30.29	69	69	60		"	"	5	"	
4	"		"	"	1		30.28	70	69	60		"	"	8	"	
5	"		"	"	1		30.28	70	68	61		"	"	8	"	
6	"		"	S.S.W.	1		30.28	69	67	62		"	cum and strat	7	"	
7	"		S.E. by S.	"	1		30.28	69	67	61		"	cir cum	7	"	
8	Ebb		"	"	1		30.28	69	66	61		"	"	8	"	
9	"		W by N.	Calm	0		30.30	69	66	61		"	"	6	"	
10	"		"	"	0		30.30	70	66	61		"	"	6	"	
11	"		"	S.E	1		30.30	70	66	61		"	"	2	"	
Mid.	"		N.W.	"	1		30.30	68	65	60		"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday December 18th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant; overcast last two hours. Calm to light E.N.E. airs. Two Chinese steamers got underway, and stood down river. Aneroid Barometer 30.38.

R.O. Bitler
R O B Ensign

4 to 8. A.M. Weather pleasant. Calm in first part of watch; light breeze from S.E. in latter part. Slack water at 6oo. Swung to Ebb at 6.30. Received on board for crew 93 lbs fresh beef, 93 lbs vegetables, and 74 loaves bread. Sent up topgallant masts and ~~topgallant~~ yards. Aneroid Barometer 30.45.

Karl Rohrer, R Lieut.

From 8 A.M. to Meridian. Weather cloudy and pleasant. Light breeze from E by S. Barometer rising. Mustered at quarters at 9.30. and exercised divisions at quarters. At 10.05. Called away battalion, and manned boats for landing. Secured and called away again at 10.20. At 10.30. hoisted in launch. At 9.50. the Comd'g Officer of the French Man-of-War, "Lutin" visited the ship officially. At 10.40. received an official visit from the Commd'g Officer of the German man-of-war, and at 10.50 an official visit from the Comd'g Officer of H.M.S. "Swift." The Comd'g Officer left the ship to pay official visits on shore at 10.30. Aneroid at end of watch 30.44

C.P. Rees Lieut

Meridian to 4 P.M. Fair and pleasant. Light airs from S.E. Finished swinging to flood tide at 2.30. River Steamer "Hankow," came in and anchored. Aneroid Barometer 30.37.

R.O. Bitler R O B Ensign

4 to 8. P.M. Weather clear and pleasant. Light breeze from Sd and Ed. Barometer steady. Mustered at quarters at 4.45. Aneroid at end of watch 30.38. Sent down topgallant yards at 4.30.

C.P. Rees Lieut.

8. P.M. to Midnight. Cloudy and pleasant. Calm to light airs from S.E. Aneroid Barometer 30.39.

R.O. Bitler R O B Ensign.

Moon l. mid Examined and found to be correct.
Dec 8° 34' 21" N.
Phase. Full Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton, China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E.S.E	Calm	0		30.30	67	64	61		bc	cirrocum	3	S	
2	"		"	"	0		30.28	67	64	61		"	"	3	"	
3	"		"	"	0		30.28	67	63	61		"	"	2	"	
4	"		"	"	0		30.27	67	63	60		"	"	2	"	
5	"		"	"	0		30.27	67	63	60		"	"	1	"	
6	"		"	East.	1		30.28	65	62	59		"	"	2	"	
7	"		S.W	S. E	1		30.29	65	62	59		"	"	2	"	
8	Swinging to Ebb		W by N.	"	1		30.30	64	62	59		"	"	3	"	
9	"		"	E.S.E	1		30.31	64	64	61		"	"	2	"	
10	"		"	"	1		30.31	65	65	62		"	"	3	"	
11	"		"	Calm	0		30.31	67	67	63		"	"	3	"	
Noon.	"		"	"	0		30.30	69	68	63		"	"	3	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ☉ ° ′ ″

Longitude by Chronometer from Forenoon Observations ☉ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ☉ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2200 "

Coal consumed during the preceding 24 hours tons 1700 lbs.

Coal remaining on hand at Noon 145 " 1960 "

P. M.																
1	Ebb		W by N	S. E	1		30.27	68	69	63		bc	cir cum	6	S	
2	Swinging to Flood		W.N.W.	S.S.E.	1		30.27	69	69	64		"	"	4	"	
3	"		N.E	"	1		30.25	69	70	64		"	"	3	"	
4	"		E by S	"	1		30.25	69	70	64		"	"	2	"	
5	"		"	Calm	0		30.25	70	69	64		"	cirro cum and cum	2	"	
6	"		"	"	0		30.25	70	69	65		"	"	2	"	
7	"		"	"	0		30.27	70	69	65		"	"	2	"	
8	Swinging to Ebb		W.S.W.	"	0		30.28	71	69	65		"	"	3	"	
9	"		W.N.W.	"	0		30.30	71	69	65		"	"	2	"	
10	"		"	"	0		30.30	70	69	65		"	"	4	"	
11	"		"	"	0		30.30	70	69	65		"	"	4	"	
Mid.	"		"	"	0		30.30	69	68	64		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ☉ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Wednesday December 19th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A. M. Cloudy. Calm. Barometer falling. Swung to the flood at 12^{10} to 12^{30}. Anervid Barometer 30.36.

W. M. Irwin wmI Lieut.

From 4 to 8. A. M. Weather cloudy and pleasant. Light variable airs and calms. Barometer rising. At 6.45. began swinging to ebb tide and finished at 7.20. At 7.30. sent up top gallant and royal yards. and bent gear. Anervid at end of watch 30.40.

C. J. Reis Lieut.

8. A. M. to Meridian. Cloudy and pleasant. Light airs from E. S. E. falling calm last two hours of watch. At 9.30. mustered at quarters, and at 9.35. called all hands; and had sail exercise. Anervid Barometer 30.38. Steamer "Hankow," left the harbor; also Chinese Gunboat.

R. O. Bitler ROB Ensign.

Meridian to 4 P. M. Cloudy and warm. Light airs from S. E. to S. S. E. At 1^{00}. called all hands and furled sail. At 2.00 commenced swinging to the Flood, and around at 2.30. Commenced distilling. at 3^{00} Anervid Barometer. 30.32.

W. M. Irwin
wmI Lieut

4 to 8. P. M. Cloudy and pleasant. Calm. At 4.30. sent down topgallant and royal yards. At 4.45. mustered at quarters. Finished swinging to ebb tide at 7.50. Anervid Barometer at end of watch 30.36. Distilling

R. O. Bitler ROB Ensign

8. P. M. to Midnight. Cloudy. Calm. Barometer steady. Anervid Barometer 30.36.

W. M. Irwin
wmI Lieut.

Moon L mid Examined and found to be correct.
Dec. 4°-35'-30"N.
Phase. Full Moon

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton, China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		North	N by W.	1		30.30	68	66	65		bc	cum and cir cum	3	S	
2	"		E by S	"	1		30.28	68	66	63		"	"	3	"	
3	Flood		"	"	1		30.25	67	65	62		"	"	6	"	
4	"		"	"	1		30.25	67	65	62		"	"	7	"	
5	"		"	North	1		30.25	66	63	59		"	"	7	"	
6	"		"	"	2		30.27	64	62	57		"	cir cum and strat	5	"	
7	Swinging to Ebb		N.E	"	2		30.30	64	61	56		"	"	4	"	
8	"		W.N.W	"	2		30.32	64	60	55		"	"	4	"	
9	"		"	N.N.W	2		30.34	64	60	55		"	cir cum	5	"	
10	"		"	"	2		30.36	64	62	56		"	cir and cir cum	7	"	
11	"		"	"	2		30.38	65	63	57		"	"	7	"	
Noon.	"		"	"	2		30.38	66	65	58		"	"	8	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 1000 "

Water remaining on hand fit for use at Noon 2900 "

Coal consumed during the preceding 24 hours tons 300 lbs.

Coal remaining on hand at Noon 145 " 1660 "

P. M.																
1	Ebb		W.N.W.	W.N.W	2		30.36	67	67	60		bc	cir cum	8	S	
2	"		"	"	2		30.34	69	69	61		"	"	8	"	
3	Swinging to		"	"	2		30.32	69	69	61		"	"	7	"	
4	Flood		"	"	2		30.32	69	69	61		"	"	7	"	
5	"		E by S.	N.N.W	2		30.32	67	69	61		"	"	7	"	
6	"		"	"	2		30.31	66	65	59		"	"	6	"	
7	"		"	"	2		30.31	66	65	59		"	"	6	"	
8	"		"	"	2		30.35	67	65	59		"	"	7	"	
9	Swinging to Ebb		W.N.W	"	2		30.37	66	62	56		"	"	8	"	
10	"		"	"	2		30.39	66	61	56		"	"	8	"	
11	"		"	"	2		30.40	66	60	55		"	"	8	"	
Mid.	"		"	"	2		30.40	65	59	54		"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday. December 20th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant, with light to gentle breeze from N by W. Barometer falling slowly. The German Man-of-War left the harbor at 3^{00}. Finished swinging at 1.30. to flood. Distilling. Aneroid Barometer 30.35.

Wainwright Kellogg
W.K. Lieut.

4 to 8 A.M. Cloudy and cool. Light breeze from North. At 4.25 stopped distilling, and hauled fires under distilling boilers. At 5.30. Steamer "Fushun" came in and moored to buoy on port quarter. In coming in she ran into a small junk, without doing much damage. Swung to ebb tide at 7.15. Crossed light yards, and loosed sail at 7.30.

R. O. Bitler Ensign

8. A.M. to Meridian. Clear and pleasant. Moderate breeze from N.N.W. Barometer rising. Mustered and inspected crew at quarters at 9.30. Exercised 1st and 3rd Divisions at Gatling Gun drill, 2nd Division at skirmish drill, and Marine Guard at small arms. Called all hands and furled sail at 10^{15}. Commanding Officer paid official visit to French Man-of-war "Volta" Aneroid Barometer 30.47. By order of Comd'g Officer. R. Marett. (O.S.) was given five first watches for shirking.

W. M. Irwin
W.M.I. Lieut.

Meridian to 4 P.M. Clear and pleasant. Light to moderate breeze from N.N.W. Slack water at 3^{00}, and at 4^{00} finished swinging to flood tide; the ship hanging on bottom 3/4 hour. French Gun boat "Lutin" went down the river. Aneroid 30.40.

Wainwright Kellogg
W.K. Lieut

4 to 8 P.M. Pleasant weather. Gentle breeze from N.N.W. At 4.30 sent down topgallant and royal yards, and topgallant masts. French Consul visited the ship officially. Aneroid Barometer 30.44.

W. M. Irwin
W.M.I. Lieut.

8. P.M. to Midnight. Clear and cool. Light breeze from N.N.W. Slack water at 8.30. and at 9^{00} finished swinging to ebb. Aneroid. 30.50.

Wainwright Kellogg W.K. Lieut.

Moon ☾ mid
Dec. 0° 31' 31" N.
Phase. Full Moon.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W.N.W	N.N.W	2		30.40	65	58	53		bc	cir	9	S	
2	Swinging to Flood		N.N.W	"	2		30.40	65	58	53		"	"	9	"	
3	"		N.E	"	1		30.40	65	58	53		"	"	9	"	
4	"		"	"	1		30.40	64	58	53		cir "	Cir Cum	8	"	
5	"		E by S	"	2		30.43	62	55	50		"	"	8	"	
6	"		"	"	2		30.43	62	55	50		"	"	8	"	
7	"		"	"	1		30.43	60	55	50		bch	"	8	"	
8	Swinging to Ebb		"	"	1		30.47	60	56	50		bc	"	8	"	
9	"		W.N.W	N by E	2		30.50	60	57	51		"	cir	9	"	
10	"		"	"	2		30.53	60	57	52		"	"	9	"	
11	"		"	"	1		30.52	62	61	55		"	"	9	"	
Noon.	"		"	"	1		30.50	63	62	55		"	"	9	"	

	knots	fathoms.
Distance run by Log since preceding Noon		

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 280 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2620 "

Coal consumed during the preceding 24 hours tons 300 lbs.

Coal remaining on hand at Noon 145 " 1360 "

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W.N.W.	N.N.W.	1		30.46	63	63	55		bc	cir and cir cum	7	S	
2	"		"	"	1		30.44	64	64	56		"	"	7	"	
3	Swinging to Flood		"	"	1		30.43	64	64	56		"	"	8	"	
4	"		N.W.	"	1		30.42	65	65	57		"	"	7	"	
5	"		E by S.	N.N.E	1		30.42	65	64	57		"	"	5	"	
6	"		"	"	1		30.42	65	66	58		"	cir cum	7	"	
7	"		"	"	1		30.42	65	66	58		"	"	8	"	
8	"		"	"	1		30.42	66	66	58		"	"	8	"	
9	"		"	"	0-1		30.45	67	65	57		"	"	8	"	
10	Swinging to Ebb		"	"	0-1		30.45	67	63	56		"	Cir	9	"	
11	"		W.N.W.	"	0-1		30.47	65	62	56		"	"	9	"	
Mid.	"		"	"	0-1		30.47	65	61	56		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Friday December 21st, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light breeze from N.N.W. Barometer steady. Swung to flood at 2.30. Aneroid Barometer 30.51.

Karl Rohrer K R Lieut

From 4 to 8. A.M. Clear and pleasant. Gentle breeze from N.N.W. Barometer steady. Swung to ebb tide at 7^{50}. Aneroid Barometer 30.52.

W.M. Irwin W M I Lieut

8. A.M. to Meridian. Clear and pleasant. Gentle breeze from N.N.W. to N by E. Barometer steady. At 9^{30} went to general quarters, and exercised. Called all hands and exercised trying torpedo booms. Aneroid 30.60. At 8.30 finished swinging to Ebb.

Wainwright Kellogg W K Lieut

Meridian to 4 P.M. Weather clear and pleasant. Light breeze from N.N.W. Barometer falling. Slack water at 2.45; flood tide at 3^{00} to which ship swings slowly. Finished refitting topgallant and royal rigging Aneroid Barometer 30.56.

Karl Rohrer K R Lieut

4 to 8. P.M. Hazy. Pleasant. Light airs from N.N.E. At 4.30. finished swinging to flood. At 4.30. sent up topgallant masts and topgallant yards. Aneroid 30.54.

Wainwright Kellogg W K Lieut.

8. P.M. to Midnight. Weather clear and pleasant. Light airs from N.N.E. Barometer rising. Cirrus clouds. Swung to Ebb at 10.15. Aneroid Barometer 30.58.

Karl Rohrer, K R Lieut.

Moon l mid
Dec. 3°-28'-03" S.
Phase. Last Quarter.

Examined and found to be correct.

W. S. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton, China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W.N.W.	Calm	0		30.46	64	60	56		bc	circum	4	S	
2	"		"	"	0		30.46	63	60	56		"	"	6	"	
3	Swinging to Flood		North	"	0		30.46	63	59	55		"	"	4	"	
4	"		East	North	1		30.46	63	58	54		"	"	5	"	
5	"		"	"	1		30.46	63	58	54		"	"	5	"	
6	"		"	Calm	0		30.46	63	58	54		"	"	6	"	
7	"		E by S.	"	0		30.45	63	58	54		"	"	3	"	
8	"		"	"	0		30.45	63	58	54		"	"	2	"	
9	"		N.E by E	N.N.E	1		30.49	64	60	55		"	"	6	"	
10	Ebb		W.N.W.	"	1		30.49	64	60	55		"	"	7	"	
11	"		"	"	1		30.46	64	62	57		"	"	8	"	
Noon.	"		"	"	1		30.46	64	64	57		"	"	8	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ⊙	° ′ ″	
Longitude by Chronometer from Forenoon Observations ⊙	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ⊙ observed at	° ′ ″	
Water expended during the preceding 24 hours	220	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	2400	"
Coal consumed during the preceding 24 hours	tons 300	lbs.
Coal remaining on hand at Noon	145 " 1060	"

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W N W	Variable	1		30.42	65	66	60		bc	circum	8	S	
2	"		"	"	1		30.38	66	69	61		"	"	8	"	
3			"	"	1		30.36	66	70	62		"	"	8	"	
4	Swinging to Flood		"	"	1		30.35	67	70	62		"	"	8	"	
5	"		E.S.E	S.E.	1		30.35	67	68	61		"	"	8	"	
6	"		"	Calm	0		30.35	68	67	62		"	cir & strat	7	"	
7	"		"	"	0		30.35	67	67	61		"	cir cum	8	"	
8	"		"	"	0		30.36	67	67	61		"	"	8	"	
9	"		"	"	0		30.35	67	65	60		"	"	8	"	
10	"		"	"	0		30.35	67	65	60		bcm	"	7	"	
11	"		"	"	0		30.35	66	63	58		"	"	7	"	
Mid.	"		W by N.	"	0		30.35	65	63	58		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙	° ′ ″
Longitude by Chronometer from Observations *	° ′ ″
Variation of the Compass by Amplitude observed at sunset	° ′ ″
Variation of the Compass by at	° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday December 22nd, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather partly cloudy and pleasant. Calm. Barometer steady. Began swinging to flood tide at 2.45 and finished at 3.15. Aneroid at end of watch 30.34.

Rees PR Lieut.

4 to 8 A.M. Hazy. Pleasant. Light variable airs and calms. Flood tide during watch. Mail ~~[illegible]~~ received from the U.S. Aneroid 30.56. Wainwright–Kellogg

WK Lieut.

8 A.M. to Meridian. Weather clear and pleasant. Light breeze from N.N.E. Barometer falling. Slack water at 8.50. Swung to ebb tide at 9.25. At 9.30 mustered and inspected crew at quarters. Aneroid Barometer 30.53. By order of Captain released Chas Carroll. (Qr. Mr) from confinement.

Karl Rohrer KR Lieut.

Meridian to 4 P.M. Weather clear and pleasant. Light variable airs. Barometer falling. Aneroid at end of watch 30.42. By order of Comd'g Officer placed W. C. Callip. (O. S) in solitary confinement for five days on bread and water, for disobeying orders of sentry.

Rees PR Lieut

4 to 8 P.M. Clear. Pleasant. Aneroid Barometer. 30.42.

W. H. Parker WHP. Lieut

8 P.M. to Midnight. Weather clear and pleasant. Calm. Barometer steady. Aneroid at end of watch 30.45. Began swinging to ebb at 10.50 and finished at 11.30.

Rees PR Lieut.

Moon l mid

Examined and found to be correct.

Dec 7°-15'-25" S.
Phase Last Quarter

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N	Calm	0		30.36	65	63	59		bc	cir cum	8	S	
2	″		″	″	0		30.36	65	62	59		″	″	8	″	
3	″		″	″	0		30.36	65	62	59		″	″	8	″	
4	″		″	″	0		30.35	65	62	59		″	″	8	″	
5	″		″	″	0		30.34	64	60	57		″	″	8	″	
6	Swinging to Flood		″	″	0		30.34	64	60	57		bcm	″	7	″	
7	″		E.S.E	″	0		30.36	63	60	57		″	″	6	″	
8	″		″	″	0		30.39	62	61	58		″	″	8	″	
9	″		″	″	0		30.40	64	63	60		bc	″	6	″	
10	″		″	East	1		30.40	64	63	60		″	cir cum and cum	4	″	
11	Swinging to Ebb		″	″	1		30.38	65	65	61		″	″	2	″	
Noon.	″		West.	W.S.W	1		30.37	65	65	61		″	″	1	″	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ☉ ° ′ ″

Longitude by Chronometer from Forenoon Observations ☉ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ☉ observed at ° ′ ″

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2150 "

Coal consumed during the preceding 24 hours tons 300 lbs.

Coal remaining on hand at Noon 145 " 760 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	W by N	1		30.30	66	66	61		bc	cir cum	6	S	
2	″		″	N.W.	1		30.27	67	68	62		″	″	7	″	
3	″		″	″	1		30.27	67	68	62		″	″	1	″	
4	″		″	″	1		30.27	67	68	62		″	″	3	″	
5	Swinging to Flood		″	″	1		30.26	68	68	62		″	cir cum and cum strat	2	″	
6	″		E.S.E	″	1		30.26	68	69	64		″	″	2	″	
7	″		″	″	1		30.28	68	69	64		″	cir cum	4	″	
8	″		″	Calm	0		30.30	68	69	64		″	″	3	″	
9	″		″	″	0		30.29	69	69	64		oc	″	0	″	
10	″		″	″	0		30.29	69	69	64		bc	″	2	″	
11	″		″	″	0		30.28	69	69	64		″	″	2	″	
Mid.	″		″	″	0		30.28	69	69	64		″	″	2	″	

Longitude by Chronometer from Afternoon Observations ☉ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday December 23rd, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm. Aneroid Barometer: 30.46.

R. O. Bitler, Ensign.

4 to 8. A.M. Weather pleasant though somewhat hazy. Calm. Slack water at 5^{00}. Swung to flood at 6^{00}. Received on board for use of ship's company 92. lbs fresh beef, 92 lbs vegetables, and 74 loaves bread. Aneroid Barometer 30.48

Lieut.

8. A.M. to Meridian. Weather cloudy and pleasant. Light variable airs and calms. Barometer falling. Aneroid at end of watch 30.42. At 10.30. began swinging to Ebb tide, finished at 10.50.

Lieut.

Meridian to 4 P.M. Weather cloudy and pleasant. Light airs from W. by N. to N.W. Aneroid Barometer 30.35.

R. O. Bitler, Ensign.

From 4. to 8. P.M. Weather cloudy and pleasant. Light airs from N.W. Calm. Barometer rising. At 4.50. began swinging to flood tide; finished at 5.35. Aneroid at end of watch 30.38.

Lieut.

8. P.M. to Midnight. Cloudy and pleasant. overcast first hour. Calm. Finished swinging to Ebb tide at 11.55.

R. O. Bitler, Ensign.

Moon . (mid Examined and found to be correct.
Dec. 10°-43'-38" S.
Phase Last Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton, China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N	Calm	0		30.30	68	67	64		oc	cir cum	0	S	
2	"		"	"	0		30.28	68	67	64		"	"	0	"	
3	"		"	"	0		30.28	68	67	64		"	"	0	"	
4	"		"	"	0		30.28	68	67	63		"	"	0	"	
5	"		"	N by E	1		30.27	67	66	63		bc	Nimb cir cum	4	"	
6	"		"	"	1		30.27	67	66	63		"	"	3	"	
7	Swinging to	Flood	"	"	1		30.30	67	66	63		"	"	2	"	
8	"		E.S.E	"	1		30.31	66	66	63		"	"	1	"	
9	"		"	N.N.W.	2		30.33	67	65	62		"	"	3	"	
10	"		"	"	2		30.35	67	65	62		"	Cum and cir cum	2	"	
11	"		"	"	2-3		30.34	67	66	61		"	"	4	"	
Noon.	Swinging to	Ebb	N.W. by N.	"	2-3		30.32	67	66	61		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 275 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1875 "

Coal consumed during the preceding 24 hours tons 308 lbs.

Coal remaining on hand at Noon 145 " 460 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W.N.W.	N.N.W.	2		30.30	70	67	62		bc	cir cum	3	S	
2	"		"	"	3		30.28	70	66	61		"	"	2	"	
3	"		"	"	3		30.27	70	66	61		"	"	2	"	
4	"		"	"	3		30.27	68	63	58		"	"	2	"	
5	"		"	N.W.	3-5		30.27	66	61	57		bcq	"	1	"	
6	"		"	"	3-5		30.27	65	60	56		"	"	1	"	
7	Flood		E.N.E	"	3-5		30.29	65	60	56		"	"	2	"	
8	"		"	"	3-5		30.30	65	58	55		"	"	3	"	
9	"		E. by S.	N.N.W	2-4		30.32	64	59	55		ocq	nimb	0	"	
10	"		"	"	2-4		30.34	64	60	56		ocqp	"	0	"	
11	"		"	"	2-4		30.35	63	59	55		"	"	0	"	
Mid.	"		"	"	2-4		30.35	63	58	55		ocq	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick., U. S. Navy,
Monday December 24th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy. Calm. Ebb tide. Anerοid Barometer. 30.36.

W. M. Irwin Lieut

From 4 to 8 A.M. Weather cloudy and pleasant. Light airs from N by E. Barometer rising. Began swinging to flood tide at 6.45; finished at 7.45. Crossed royal yards at 7.30. Aneroid at end of watch 30.39.

Lieut.

8 A.M. to Meridian. Clear and pleasant. Light to moderate N.N.W. breeze. Barometer falling slowly. Went to quarters at 9.30, after which had divisional exercises. At 10.30 had Battalion drill. Swinging to Ebb at 11.00.

Ensign.

Meridian to 4 P.M. Cloudy. Threatening rain. Moderate breeze from N.N.W. freshening latter part. Barometer falling. Aneroid Barometer 30.38.

W. M. Irwin Lieut

From 4 to 8 P.M. Weather fair and cool. Moderate to fresh winds from N.W. Barometer rising slowly. Received in Pay. Dept. for ships company 92 lbs. of fresh beef, and vegetables, and 74 loaves bread. At 4.30. sent down royal yards. Finished swinging to flood at 6.55.

Ensign.

From 8 P.M. to Midnight. Overcast, cloudy, and squally with light passing showers latter part of watch. Moderate to fresh breeze from N.N.W. Aneroid Barometer 30.46. Slack water at 11.45.

W. M. Irwin Lieut.

Moon (. mid
Dec. 13°-45'-21° S.
Phase. Last Quarter

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3^d Rate, 6 Guns,

Anchored off Canton.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W.N.W.	N.N.W.	2-4		30.33	63	57	55		ocq	Cum & Nim	0	S	
2	"		"	"	2:4		30.33	63	57	55		ocqr	"	0	"	
3	"		"	"	2		30.33	63	57	55		ocr	"	0	"	
4	"		"	"	2		30.33	63	57	55		"	"	0	"	
5	"		"	"	2		30.30	62	55	53		ocm	"	0	"	
6	"		"	"	2		30.33	62	55	53		"	"	0	"	
7	"		W by N.	N by W	2		30.35	60	55	53		"	"	0	"	
8	"		"	"	2		30.38	58	53	51		"	"	0	"	
9	Flood		N.W.	N.N.W	2		30.40	59	53	51		ocd	"	0	"	
10	"		E by S.	"	2		30.42	59	52	51		"	"	0	"	
11	"		"	"	3		30.43	59	52	51		"	"	0	"	
Noon.	"		"	"	3		30.43	59	52	51		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 275 gallons.

Water during the preceding 24 hours 275 "

Water remaining on hand fit for use at Noon 1600 "

Coal consumed during the preceding 24 hours tons 300 lbs.

Coal remaining on hand at Noon 145 " 160 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	Swinging to Ebb		N.N.E	N.N.W.	2		30.40	59	52	51		ocd	Cum and Nimb	0	S	
2	"		N.W.	North	2		30.38	59	52	57		"	"	0	"	
3	"		W.N.W.	"	2		30.38	62	53	57		"	"	0	"	
4	"		"	"	2		30.38	66	54	57		bc	cirro strat and cir cum	3	"	
5	"		"	"	2		30.38	66	54	57		"	"	2	"	
6	"		"	N.N.W.	2		30.40	66	54	57		"	Cir Cum	2	"	
7	Swinging to Flood		N.N.E	"	1		30.40	66	54	57		"	"	1	"	
8	"		"	"	1		30.40	66	54	51		"	"	1	"	
9	"		E by S.	North	2		30.44	66	55	52		"	"	1	"	
10	"		"	"	2		30.46	67	54	51		"	"	2	"	
11	"		"	"	2		30.46	67	54	51		"	"	5	"	
Mid.	"		"	"	2		30.46	64	53	50		"	"	5	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday December 25th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Raining. Light to Moderate breeze from N.N.W. At 12.20. finished swinging to Ebb. Aneroid 30.46.

Wainwright Kellogg Lieut

From 4 to 8 A.M. Cool and misty. Light N.N.W. wind hauling to N by W latter part of watch. Rising Barometer. Surgeon M. L. Ruth left ship on leave of absence.

W. C. P. Muir Ensign.

From 8. A.M. to Meridian. Overcast and cloudy with light drizzling rain. Barometer rising. Mustered and inspected at quarters at 9.30. Commenced swinging to Flood at 8.45; got around at 9.15. Aneroid Barometer 30.54.

W. M. Irwin Lieut

Meridian to 4 P.M. Cloudy. Gloomy. Light occasional shower of rain. Slack water at 12.30; and at 1.30. finished swinging to Ebb. Aneroid 30.50.

Wainwright Kellogg Lieut.

From 4 to 8 P.M. Cloudy and cool. Gentle breeze from N.N.W. Barometer steady. Mustered at quarters at 4.45. Slack water at 6.45; got around at 7.15. Aneroid Barometer 30.54.

W. M. Irwin Lieut.

8 P.M. to Midnight. Cloudy. Cool. Moderate breeze from North. Flood tide during watch. Aneroid 30.54

Wainwright Kellogg Lieut

Moon ☾ mid
Dec 16°-13'-31"S.
Phase Last Quarter

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton. China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		East	North	2		30.46	61	53	49		oc	cum and nimb	0	S	
2	Swinging to Ebb		W.N.W.	"	2		30.44	61	53	49		"	"	0	"	
3	"		"	"	1		30.42	59	51	48		"	"	0	"	
4	"		"	"	1		30.42	59	51	48		"	"	0	"	
5	"		"	"	1		30.42	59	51	48		bc	cir cum	2	"	
6	"		"	"	1		30.42	59	51	48		"	"	4	"	
7	"		"	"	1		30.43	62	51	48		"	"	2	"	
8	"		W by N	N by W.	1		30.44	63	51	48		"	"	3	"	
9	"		"	"	1		30.44	63	52	47		"	"	2	"	
10	Swinging to Flood		N.W	N by E	1		30.46	65	54	47		"	"	4	"	
11	"		E by S.	"	1		30.46	65	55	48		"	"	5	"	
Noon.	"		"	N.W.	1		30.43	67	58	50		"	"	6	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1300 "

Coal consumed during the preceding 24 hours tons 1700 lbs.

Coal remaining on hand at Noon 144 " 700 "

P. M.																
1	Flood		E by S	N by W.	1		30.40	69	60	52		bc	cir cum	6	S	
2	"		"	"	1		30.38	71	61	52		"	"	5	"	
3	Ebb		W.N.W.	"	1		30.37	72	61	53		"	"	5	"	
4	"		"	"	1		30.37	72	62	54		"	"	5	"	
5	"		"	"	1		30.38	71	62	54		"	cir cum cir strat.	7	"	
6	"		"	"	1		30.38	70	62	54		"	"	7	"	
7	"		"	"	1		30.39	70	62	56		"	cir cum	8	"	
8	Swinging to Flood		East	"	1		30.39	70	62	55		"	"	8	"	
9	"		"	"	1		30.38	67	59	52		"	"	8	"	
10	"		E by S.	N. N. E	1		30.38	66	58	52		"	"	9	"	
11	"		"	"	1		30.36	66	58	52		"	"	9	"	
Mid.	"		"	"	1		30.35	65	56	50		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday December 26th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and cloudy. Light breeze from North. Barometer falling. Slack water at 1^{00}. Swung to Ebb tide at 1.30. Aneroid Barometer 30.54. Fires banked under No. 3 boiler.

Karl Rohrer, KR Lieut

4 to 8 A.M. Cloudy and cool. Light airs from N^{d}. Barometer steady. Made preparations for rattling down the rigging. Ebb tide. Aneroid Barometer 30.57.

W.M. Irwin WMI Lieut.

8 A.M. to Meridian. Clear. Cool. Pleasant. Light to Moderate breeze from N by W. first part of watch. N by E. the remainder. Slack water at 9.30. Finished swinging to flood at 10.20. Crew engaged rattling down. Aneroid 30.52.

Wainwright Kellogg WK Lieut.

Meridian to 4 P.M. Weather clear and pleasant. Light breeze from N by W. Barometer falling. Cirro cumulus clouds. Slack water at 2.15. Swung to Ebb tide at 2.45. Crew engaged in rattling down lower and topmast rigging. Aneroid Barometer 30.45.

Karl Rohrer, KR Lieut.

4 to 8 P.M. Clear and pleasant. Light breeze from N. by W. At 4.45 mustered at quarters. Slack water at 7^{00} and at 7.30 finished swinging to flood. Aneroid 30.46.

Wainwright Kellogg WK Lieut.

8 P.M. to Midnight. Weather clear and pleasant. Light breeze from N by W. to N.N.E. Barometer falling. Bright starlight. Banked fires under No. 3 boiler. Aneroid Barometer 30.48.

Karl Rohrer, KR Lieut.

Moon l mid Examined and found to be correct.
Dec 18°-01'-34" S
Phase. Last Quarter.

W. S. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3rd Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S.	Calm	0		30.37	63	56	51		bc	Cir	9	S	
2	Swinging to Ebb		"	"	0		30.36	63	56	52		"	"	9	"	
3	"		W.N.W.	N.N.E	0-1		30.34	62	54	51		"	"	9	"	
4	"		"	"	0-1		30.34	62	54	50		"	"	9	"	
5	"		"	Calm	0		30.34	60	53	49		"	cir cum	7	"	
6	"		"	"	0		30.34	60	52	49		"	cir strat cir cum	6	"	
7	"		"	N.N.W.	1		30.36	59	52	49		"	"	6	"	
8	"		"	"	1		30.38	57	53	49		"	cir and cir cum	4	"	
9	"		"	"	1		30.39	59	56	57		"	"	4	"	
10	Swinging		East.	"	1		30.40	62	58	54		"	"	5	"	
11	Flood		E by S	Calm	0		30.40	63	60	57		"	"	4	"	
Noon.	"		"	"	0		30.40	63	60	57		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1050 "

Coal consumed during the preceding 24 hours tons 1200 lbs.

Coal remaining on hand at Noon 143 " 1740 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of the sail.
P. M.																
1	Flood		E.S.E	N.N.W.	1		30.35	68	65	58		bc	cir cum	4	S	
2	"		"	"	1		30.30	67	65	57		"	"	6	"	
3	Ebb		W by S.	"	1		30.28	67	65	57		"	"	7	"	
4	"		W by N.	"	1		30.28	67	65	57		"	"	7	"	
5	"		"	Calm	0		30.28	67	66	58		"	cir cum and strat	6	"	
6	"		"	"	0		30.28	66	66	59		"	"	4	"	
7	"		"	"	0		30.30	66	66	61		"	Cir Cum	4	"	
8	Swinging to Flood		N.N.W.	"	0		30.30	66	66	61		"	"	4	"	
9	Ebb		E.S.E	"	0		30.30	66	66	61		"	"	4	"	
10	"		"	"	0		30.30	66	66	61		"	"	3	"	
11	"		"	"	0		30.31	65	65	61		"	"	3	"	
Mid.	"		"	"	0		30.31	65	65	61		"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday December 27th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and cool. Light airs from N.N.E. Barometer steady. At 1.45 commenced swinging to ebb tide, finished at 2.20. Aneroid at end of watch 30.48.

C.P.Rees CPR Lieut.

4 to 8 A.M. Clear and cool. Light airs from N.N.W. and calms. Ebb tide during watch. Aneroid 30.50.

Wainwright Kellogg WK Lieut.

8 A.M. to Meridian. Weather clear and pleasant. Light airs from N.N.W. in first part of watch; calm in latter part. Slack water at 9.30. swung to flood at 10.30. H.B.M. Gunboat "Fly" came in and anchored. Sent an officer with the usual offer of civilities on board ~~the "Fly"~~. The Captains of the "Swift" and "Fly" visited the ship officially. Finished blacking down the rigging. Released W.C. Callip. (O.S.) from confinement by order of Captain. Aneroid Barometer 30.46.

Karl Rohrer KR Lieut.

Meridian to 4 P.M. Weather clear and pleasant. Light airs from N.N.W. Barometer falling. At 2.30. the French man-of-war "Lutin" came in and anchored. Sent an officer to board her with the usual offers of civilities. Began swinging to Ebb tide at 2.15, and finished at 2.50. Aneroid at end of watch 30.38.

C.P.Rees CPR Lieut.

4 to 8 P.M. Weather pleasant. Calm. Barometer steady. Slack water at 7.30. At 4.45. mustered crew at quarters. Fires banked under No.3. boiler. Aneroid Barometer 30.40. Swung to flood tide at 8.oo.

Karl Rohrer, KR Lieut.

8 P.M. to Midnight. Weather partly cloudy and pleasant. Calm. Barometer steady. Exercised at night quarters at 8.30. Finished swinging to flood tide at 8.15. The French Corvette "Volta" got underway and left the harbor at 11.30. Aneroid at end of watch 30.40.

C.P.Rees CPR Lieut.

Moon l mid
Dec 19°-02'-40"S
Phase. Last Quarter.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton, China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S.	Calm	0		30.30	65	63	58		bc	cir cum	8	S	
2	"		"	"	0		30.28	63	63	58		"	"	8	"	
3	Ebb		W by N.	"	0		30.28	63	63	58		oc	"	0	"	
4	"		"	"	0		30.28	63	63	58		"	"	0	"	
5	"		"	North	1		30.29	63	63	59		"	cir cum and cum strat	0	"	
6	"		"	"	1		30.29	63	62	58		bc	"	2	"	
7	"		"	"	1		30.30	63	62	58		"	"	3	"	
8	"		"	"	1		30.33	63	62	58		"	"	2	"	
9	"		"	Calm	0		30.36	68	62	59		"	Cum and cir cum	2	"	
10	"		"	"	0		30.36	67	65	59		"	"	1	"	
11	Swinging to Flood		N.N.E	N.W.	1		30.36	67	66	61		oc	"	0	"	
Noon.	"		E.S.E	"	1		30.35	67	68	61		"	"	0	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ⊙	° ′ ″	
Longitude by Chronometer from Forenoon Observations ⊙	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ⊙ observed at	° ′ ″	
Water expended during the preceding 24 hours	250	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	800	"
Coal consumed during the preceding 24 hours	tons 1500	lbs.
Coal remaining on hand at Noon	144" 620	"

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.															S	
1	Flood		E.S.E	Calm	0		30.32	70	67	61		oc	cir cum and cum	0	"	
2	"		"	N.W	1		30.31	71	67	62		ocd	"	0	"	
3	"		"	"	1		30.30	73	67	62		oc	"	0	"	
4	Swinging to Ebb		W by N	"	1		30.30	74	67	62		"	"	0	"	
5	"		"	"	1		30.30	73	65	61		ocd	"	0	"	
6	"		"	"	1		30.31	71	64	61		"	"	0	"	
7	"		"	"	1		30.33	70	64	61		"	"	0	"	
8	"		"	"	1		30.36	70	64	61		"	"	0	"	
9	Swinging to Flood		N.E by. E	"	1		30.37	70	65	62		or	cum and nimb	0	"	
10	"		E by S.	N.N.W.	1		30.38	70	65	62		"	"	0	"	
11	"		"	"	1		30.38	69	65	63		"	"	0	"	
Mid.	"		"	"	1		30.38	68	65	63		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙	° ′ ″
Longitude by Chronometer from Observations *	° ′ ″
Variation of the Compass by Amplitude observed at sunset	° ′ ″
Variation of the Compass by at	° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Friday December 28th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant first two hours, cloudy and overcast last two hours of watch. At 2.30 finished swinging to ebb. Calm. Aneroid Barometer at end of watch 30.39.

R. O. Bitler, Ensign.

4 to 8 A.M. Weather pleasant. Light airs from North. Barometer rising. Riding to ebb tide. Aneroid Barometer 30.43.

Karl Rohrer Lieut.

8 A.M. to Meridian. Weather overcast and pleasant. Light airs and calms. Barometer steady. At 10.00 began swinging to flood tide; finished at 11.10. The Comd'g Officer visited H. B. M. S. "Fly" officially at 10.00. H. B. M. S. "Swift" got under way and left the harbor at 10.40. Painting ship inside. Aneroid at end of watch 30.42.

C. P. Rees Lieut.

Meridian to 4 P.M. Overcast and pleasant with very light drizzle second hour. German Gunboat "Wolf" came in and anchored. Sent Officer to board her, and offer the usual civilities. At 3.35 finished swinging to Ebb tide. Aneroid Barometer 30.39.

R. O. Bitler, Ensign.

From 4 to 8 P.M. Weather overcast with light drizzling rain. Barometer rising. Mustered at quarters at 4.45. Riding to Ebb tide. Aneroid at end of watch 30.45.

C. P. Rees Lieut.

From 8 P.M. to Midnight. Overcast cloudy and rainy. Light airs from N.W. and N.N.W. At 9.00 finished swinging to flood. Aneroid Barometer 30.45.

R. O. Bitler, Ensign.

Moon l mid
Dec 19°-11'-31"S.
Phase Last Quarter.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3rd* Rate, *6* Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E.S.E	Calm.	0		30.36	69	67	65		ocr	Nimb.	0	S	
2	"		"	N.N.W.	1		30.35	68	66	65		"	"	0	"	
3	Swinging to Ebb		W by S	"	1		30.35	68	66	65		"	"	0	"	
4	"		W.N.W	"	1		30.34	68	65	63		"	"	0	"	
5	"		W by N.	"	1		30.34	68	63	62		"	"	0	"	
6	"		"	"	1		30.34	64	63	62		ocd	"	0	"	
7	"		W.N.W.	North	2-4		30.39	64	63	62		ocq m	"	0	"	
8	"		"	"	2-4		30.43	65	61	60		"	"	0	"	
9	"		"	"	3		30.46	65	60	56		bc	cir cum and strat	1	"	
10	"		"	"	3		30.46	65	60	56		"	"	3	"	
11	Flood		"	"	3		30.45	66	61	57		"	"	4	"	
Noon.	"		"	"	2-4		30.44	66	62	58		bcq	Cir cum	6	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *250* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *550* "

Coal consumed during the preceding 24 hours tons *1400* lbs.

Coal remaining on hand at Noon *143* " *1460* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		East	N.N.E.	2-4		30.40	66	64	58		bcq	cir cum	5	S	
2	"		"	"	2-4		30.38	68	65	59		"	"	3	"	
3	"		"	"	2-4		30.38	67	64	58		"	cum and cir cum	2	"	
4	Swinging to Ebb		N.N.W.	North	2-4		30.38	67	63	57		"	"	2	"	
5	"		W.N.W	"	2-4		30.38	67	63	57		"	"	2	"	
6	"		"	"	3		30.38	67	63	57		ocq	"	0	"	
7	"		"	"	2		30.39	68	61	56		bc	cir cum and cum	2	"	
8	"		"	"	2		30.40	68	61	56		"	"	2	"	
9	Swinging to Flood		"	"	2		30.43	66	60	55		"	"	3	"	
10	"		E by S.	"	2		30.45	65	59	54		"	"	3	"	
11	"		"	N.N.E	2		30.45	64	58	53		"	"	2	"	
Mid.	"		"	"	3		30.45	64	57	51		"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Saturday. December 29, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast cloudy and raing. Calm first hour, light airs from N.N.W. remainder of watch. Swung to the Ebb at 3^{10}. Aneroid Barometer 30.44.

W. M. Irwin wmI Lieut.

From 4. to 8. A.M. Weather overcast with light drizzling rain first part of watch; clearing latter part with rising barometer. Aneroid at end of watch 30.56.

APRies Lieut.

8 A.M. to Meridian. Cloudy and pleasant. Wind light to moderate from North. At 9.30 mustered at quarters. Received official visits from Comdg Officer of German Gunboat "Wolf" and from Comdg Officer of French Gunboat "Lutin". Slack water at 10.15. English steamer "Powan" came in and grounded, letting go an anchor, after attempting for some time to get off.

R. O. Bitler OB Ensign.

Meridian to 4. P.M. Cloudy and squally. Fresh breeze from N.N.E. hauling to North. Barometer steady. Swung to the Ebb at 3^{20}. Aneroid Barometer 30.48.

W. M. Irwin wmI Lieut.

From 4. to 8 P.M. Cloudy and cool, squally first two hours. At 4.45. mustered at quarters. Light to moderate breeze from North.

R. O. Bitler OB Ensign.

8. P.M. to Midnight. Cloudy and cool. Fresh breeze from North, hauling to N.N.E. Swung to Flood at 9^{35}. Aneroid Barometer 30.56.

W. M. Irwin wmI Lieut.

Moon L mid Examined and found to be correct.
Dec 18°-25'-14" S.
Phase. New Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	N.N.E	3		30.45	63	56	50		oc	cum and nimb	0	S	
2	"		"	"	3		30.44	63	56	50		"	"	0	"	
3	Swinging to Ebb		E by N	"	2		30.42	62	56	50		bc	cum and cir cum	3	"	
4	"		W.N.W.	"	2		30.42	62	55	49		"	"	1	"	
5	"		"	"	2		30.42	62	55	49		"	"	2	"	
6	"		"	"	1		30.42	62	55	49		"	"	3	"	
7	"		"	"	1.2		30.44	63	55	50		"	"	3	"	
8	"		"	"	1		30.46	63	55	50		"	"	3	"	
9	"		"	"	1		30.50	62	55	51		"	"	3	"	
10	"		W by N	North	1		30.50	62	56	48		"	"	4	"	
11	"		"	"	1		30.49	62	58	50		"	"	4	"	
Noon.	Flood		"	"	1		30.48	61	59	51		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *350* gallons.

Water *distilled* during the preceding 24 hours *2000* "

Water remaining on hand fit for use at Noon *2200* "

Coal consumed during the preceding 24 hours *1* tons *460* lbs.

Coal remaining on hand at Noon *142* " *1000* "

P. M.															
1	Flood		E by S.	N by E	2		30.44	70	62	52		bc	cir cum	6	S
2	"		"	"	2		30.41	69	63	53		"	"	6	"
3	"		"	"	2		30.40	68	64	53		"	cir cum and strat	4	"
4	"		"	"	2		30.39	66	64	53		"	"	3	"
5	Swinging to Ebb		W.N.W.	"	2		30.40	66	63	53		"	cum and cir cum	2	"
6	"		N.N.W.	"	2		30.40	66	63	54		"	"	2	"
7	"		"	N.N.W.	1		30.40	67	63	54		"	"	3	"
8	"		"	"	1		30.40	67	62	54		"	"	5	"
9	"		N.W.	"	1		30.40	66	60	54		"	"	3	"
10	Flood		E by S.	"	1		30.40	66	60	54		"	"	3	"
11	"		"	"	1		30.40	65	60	53		"	"	6	"
Mid.	"		"	"	1		30.40	65	59	53		"	"	6	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday December 30th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Light breeze from N.N.E. Slack water at 2.50, and at 3.50 finished swinging to Ebb. Aneroid 30.54.

Wainwright Kellogg wk Lieut.

From 4 to 8 A.M. Cloudy and cool. Light airs to light breeze from N.N.E. Aneroid Barometer 30.59. At 6.15 started distilling.

R. O. Bitler Ensign

From 8 A.M. to Meridian. Pleasant weather. Light breeze from North. Went to quarters at 9.30. Commanding Officer inspected ship and crew. Slack water at 11 30. Aneroid Barometer 30.56. Distilling.

W. M. Irwin
wmI Lieut.

Meridian to 4 P.M. Cloudy. Pleasant. Light breeze from N. by E. At 12.50. finished swinging to Flood. Aneroid. 30.48.

Wainwright Kellogg
wk Lieut.

From 4 to 8 P.M. Cloudy and pleasant. Gentle breeze from N by E. Barometer steady. High water at 4.30.; swung to the Ebb at 5 05. Aneroid Barometer 30.50.

W. M. Irwin wmI Lieut.

8 P.M. to Midnight. Clear and cool. Light airs from N.N.W. Slack water at 9 00. and at 9 40. finished swinging to Flood. Aneroid. 30.50.

Wainwright Kellogg wk Lieut.

Moon l mid Examined and found to be correct.
Dec. 16°-44'-06" S.
Phase New Moon

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S.	N. by E.	1		30.40	63	59	53		bc	circum	3	S	
2	"		"	"	1		30.40	63	58	52		"	"	3	"	
3	"		"	"	1		30.40	63	58	52		"	"	3	"	
4	"		"	"	1		30.40	62	58	52		"	"	3	"	
5	Swinging to Ebb		N. E by E.	"	1		30.40	62	58	51		"	"	2	"	
6	"		W. N. W	"	1		30.40	62	57	50		"	"	2	"	
7	"		"	"	1		30.42	61	57	50		"	"	3	"	
8	"		"	"	1		30.44	60	57	50		"	"	4	"	
9	"		"	"	1		30.45	62	59	51		"	"	4	"	
10	"		"	N. E.	1		30.45	65	62	52		"	"	3	"	
11	"		"	"	1		30.45	67	63	53		"	"	5	"	
Noon.	"		"	"	1		30.45	67	63	53		"	"	6	"	

Distance run by Log since preceding Noon	knots	fathoms.	
Latitude by D. R. at Noon	°	'	"
Longitude by D. R. at Noon	°	'	"
Latitude by Observations at Noon ⊙	°	'	"
Longitude by Chronometer from Forenoon Observations ⊙	°	'	"
Current during the time knots fms. per hour, setting to the			
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	'	"
Variation of the Compass by Azimuth ⊙ observed at	°	'	"
Water expended during the preceding 24 hours	250 gallons.		
Water *distilled* during the preceding 24 hours	1000 "		
Water remaining on hand fit for use at Noon	3000 "		
Coal consumed during the preceding 24 hours	1 tons	460 lbs.	
Coal remaining on hand at Noon	141 "	540 "	

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	N. E	1		30.37	65	64	54		bc	cir cum	6	S	
2	"		"	S. E by S	1		30.35	66	64	54		"	"	2	"	
3	"		"	"	1		30.35	66	64	54		"	"	2	"	
4	"		"	"	1		30.35	66	64	54		"	"	2	"	
5	"		"	"	1		30.32	66	65	57		"	cir cum and strat	3	"	
6	Ebb		W by N	"	1		30.30	66	66	57		"	"	2	"	
7	"		"	Calm	0		30.30	67	65	58		"	"	2	"	
8	"		"	"	0		30.30	67	65	58		"	"	4	"	
9	"		"	"	0		30.30	67	65	58		"	cir cum	5	"	
10	"		"	S. E.	1		30.30	67	65	59		"	"	2	"	
11	Swinging to Flood		E. S. E	"	1		30.30	67	64	60		"	"	1	"	
Mid.	"		"	"	1		30.30	67	64	60		"	"	1	"	

Longitude by Chronometer from Afternoon Observations ⊙	°	'	"
Longitude by Chronometer from Observations *	°	'	"
Variation of the Compass by Amplitude observed at sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander A. H. McCormick, U. S. Navy,
Monday December 31st, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool, with light airs from N by E. Barometer steady. Ship riding to flood tide. Distilling.

W. C. P. Muir W.C.P.M. Ensign.

4 to 8 A.M. Cloudy and pleasant. Light airs from N. by E. At 4^{45} swung to the Ebb. At 5^{00} stopped distilling and hauled one fire. Aneroid Barometer 30.54.

W. M. Irwin W.M.I. Lieut.

8 A.M. to Meridian. Cloudy and pleasant. Light breeze from N. E. Slack water at 4.55. Crew employed in breaking out and stowing shell room. Aneroid 30.45.

Wainwright Kellogg W.K. Lieut.

Meridian to 4 P.M. Clear and warm. Light S. E. airs. Barometer falling first two hours of watch. Steady latter half. Crew engaged stowing shell room. At 12.35. finished swinging to Flood. At 2.25. H. M. S. "Vigilant" came in and anchored. Sent an officer to extend usual courtesies. At 3^{05} a Chinese War Vessel came in. Received official visits from H. B. M. Consul, and Comdg. Officer of "Vigilant."

W. C. P. Muir W.C.P.M. Ensign

4 to 8 P.M. Clear and pleasant. Light variable airs and calms. At 4.45. mustered at quarters. At 5^{00} commenced swinging to Ebb; at 5.31. finished. Aneroid 30.40.

Wainwright Kellogg W.K. Lieut.

8 P.M. to Midnight. Cloudy and cool. Calm to light S. E. airs. Steady Barometer. 30.30. At 10.30. finished swinging to Flood.

W. C. P. Muir W.C.P.M. Ensign.

Moon l. mid. Examined and found to be correct.
Dec 14°-12'-02" S.
Phase New Moon

W. H. Parker
Lieut. and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S	S.E. by S.	1		30.30	65	62	58		bc	cir cum	1	S	
2	"		"	"	1		30.30	65	62	58		oc	"	0	"	
3	"		"	"	1		30.30	65	61	57		"	"	0	"	
4	"		"	"	1		30.30	65	60	56		"	"	0	"	
5	"		"	E by N.	1		30.30	63	60	56		"	Cum and nimb	0	"	
6	Ebb		W by N.	"	1		30.30	64	61	57		"	"	0	"	
7	"		"	"	1		30.32	63	61	58		bc	cum strat and nimb	1	"	
8	"		"	"	1		30.33	65	61	57		"	"	1	"	
9	"		"	"	1		30.34	63	61	57		"	"	2	"	
10	"		"	"	1		30.34	64	61	57		"	cum strat and cir cum	1	"	
11	"		"	S.E	1		30.34	64	63	58		"	"	1	"	
Noon.	"		"	"	1		30.32	64	63	58		"	"	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 275 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2725 "

Coal consumed during the preceding 24 hours tons 1500 lbs.

Coal remaining on hand at Noon 140 " 1280 "

P. M.																
1	Swinging to Flood		E by S.	East	2		30.30	65	63	56		bc	cir cum	3	S	
2	"		"	"	2		30.26	67	63	56		"	"	4	"	
3	"		E.S.E	E.S.E	1		30.24	67	63	56		"	"	2	"	
4	"		"	"	1		30.23	68	65	56		"	"	2	"	
5	"		"	"	1		30.23	68	65	56		"	"	2	"	
6	Ebb		S by W.	Calm.	0		30.23	68	64	58		"	"	2	"	
7	"		W by N.	"	0		30.23	67	66	60		ocd	"	0	"	
8	"		"	"	0		30.23	67	66	60		"	"	0	"	
9	"		W.N.W.	E.S.E	1		30.24	67	66	61		oc	Cum and nimb	0	"	
10	"		"	"	1		30.24	67	66	61		"	"	0	"	
11	Swinging to Flood		N.W.	"	1		30.22	67	65	60		"	"	0	"	
Mid.	"		E.S.E.	"	1		30.22	66	64	58		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday January 1st, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather pleasant. Light airs from S.E by S. Barometer steady. Riding to flood tide. Fires banked under one boiler. Aneroid Barometer 30.41.

Karl Rohrer, R Lieut

4 to 8 A.M. Cloudy. Pleasant. Light breeze from E by N. Slack water at 5.25. and at 5.45. finished swinging to Ebb. Aneroid 30.44.

Wainwright Kellogg WK Lieut

8 A.M. to Meridian. Pleasant weather with light E by N. and S.E. airs Falling barometer. Went to quarters at 9.30. for inspection. Comdg Officer paid an official visit on board H.M.S. "Vigilant." Received official visits from Comdg officers of English, French, and German war vessels in-port. Ship riding to Ebb.

W.C.P. Muir WCPM Ensign.

Meridian to 4 P.M. Weather pleasant. Light breeze from E. to E.S.E. Barometer falling. Slack water at 12.30. Swung to flood at 1^00. Fires banked under one boiler. The Steamer "Hankow" and a Chinese Government Steamer came in and anchored. Aneroid Barometer 30.32.

Karl Rohrer, KR Lieut.

4 to 8 P.M. Weather cloudy and threatening. Calm to light E.S.E. airs. Barometer steady. Went to quarters for muster at 4.45. Slack water at 5.45. Ship finished swinging to Ebb at 6 o'clock.

W.C.P. Muir WCPM Ensign.

8 to Midnight. Weather pleasant. Light breeze from E.S.E. Slack water at 10^45. Swung to flood at 11^30 Fires banked under one boiler. Aneroid Barometer 30.30.

Karl Rohrer, KR. Lieut

Moon l mid Examined and found to be correct.
Dec 10°-34'-56" S.
Phase. New Moon

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3^d* Rate, *6* Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E.S.E.	E.S.E	1		30.21	67	65	59		oc	cir cum and cum	0	S	
2	"		"	"	1		30.20	66	64	58		"	"	0	"	
3	"		"	"	1		30.20	66	63	58		"	"	0	"	
4	"		"	Calm	0		30.18	66	63	58		"	"	0	"	
5	"		"	"	0		30.18	64	60	57		"	"	0	"	
6	Ebb		"	"	0		30.18	64	60	57		"	"	0	"	
7	"		W. by N.	"	0		30.18	64	61	57		"	"	0	"	
8	"		"	N.E	1		30.18	64	61	57		bc	"	3	"	
9	"		"	"	2		30.21	68	63	58		bcd	cir cum and Nimb	1	"	
10	"		"	"	2		30.23	69	64	59		bc	"	1	"	
11	"		"	"	1		30.26	70	65	60		"	"	1	"	
Noon.	"		"	"	1		30.26	71	65	60		"	"	1	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2425* "

Coal consumed during the preceding 24 hours tons *1500* lbs.

Coal remaining on hand at Noon *139* " *2020* "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Swinging to		W by N.	Calm	0		30.24	73	64	60		bcd	cum strat and nimb	1	S	
2	Flood		E by S	E.N.E	1		30.21	71	65	60		bc	"	1	"	
3	"		"	"	1		30.18	70	65	60		oc	"	0	"	
4	"		"	W.N.W.	1		30.18	68	65	61		"	"	0	"	
5	"		"	Calm	0		30.18	67	65	61		"	"	0	"	
6	"		"	N.E	1		30.16	68	66	62		"	"	0	"	
7	Ebb		W by N.	"	1		30.16	68	66	62		ocd	"	0	"	
8	"		"	"	1		30.16	68	66	63		"	"	0	"	
9	"		"	East	1		30.18	67	66	63		oc	cum & nimb	0	"	
10	"		"	"	1		30.20	67	66	63		"	"	0	"	
11	"		"	"	1		30.21	65	66	63		"	"	0	"	
Mid.	Swinging to Flood		N.W.	"	1		30.21	65	65	63		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander. A. H. McCormick, U. S. Navy,

Wednesday. January 2nd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and pleasant. Light airs from E.S.E. Barometer steady. Aneroid at end of watch 30.30.

J.P. Ree R Lieut

4 A.M. to 8 A.M. Overcast and pleasant. Calm to light N.E. airs. Ship swinging to Ebb at 6 10. Barometer steady. At 6 15. H.M.S. "Vigilant." left harbor. At 7 30 crossed royal yards and loosed sail to a bowline. Aneroid 30.32.

W.C. Ulrin G.A.M. Ensign.

8 A.M. to Meridian. Weather cloudy and in early part of watch damp. Light breeze from N.E. Barometer rising. At 8 45 shortened and furled sail. At 9.30. mustered and inspected crew at quarters, and drilled 1st Div. at howitzer drill, 2nd at great guns, and 3rd at 3" B.L.R. Riding to ebb tide. Fires banked under one boiler. Aneroid Barometer 30.32.

Hud Rodman, R R Lieut.

Meridian to 4 P.M. Weather overcast and damp. Light variable airs and calms. Barometer falling. At 12.55. began swinging to flood tide, finished at 1 40. Aneroid at end of watch 30.25.

J.P. Ree R Lieut

4 to 8 P.M. Weather cloudy but not unpleasant. Light drizzling rain in latter part of watch. Light airs from N.E. At 4.30. sent down royal and topgallant yards, and bent light sails. At 4 45 mustered crew at quarters. Slack water at 5 30. Swung to ebb tide at 6 30. Aneroid Barometer 30.30.

Hud Rodman R R Lieut

8 P.M. to Midnight. Weather overcast and damp. Light airs from Ed. Barometer steady. Aneroid at end of watch 30.30. Began swinging to flood tide at 11.30.

J.P. Ree R Lieut

Moon ¢ mid Examined and found to be correct.

Dec. 7° 03' 26" S.

Phase New Moon

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E. S. E	East	1		30.21	65	65	62		oc	cum & nimb	0	S	
2	"		"	"	1		30.20	65	65	62		"	"	0	"	
3	"		"	"	1		30.20	65	65	62		"	"	0	"	
4	"		"	"	1		30.20	65	65	62		"	"	0	"	
5	"		"	"	1		30.20	65	65	62		"	"	0	"	
6			"	"	1		30.20	65	65	62		"	"	0	"	
Swinging to Ebb			W. N. W.	N. E	1		30.20	65	65	62		"	"	0	"	
8	"		"	"	1		30.20	65	65	62		"	"	0	"	
9	"		"	"	1		30.23	66	66	62		"	"	0	"	
10	"		"	Calm	0		30.25	67	66	63		"	"	0	"	
11	"		"	"	0		30.28	67	66	63		"	"	0	"	
Noon.	"		"	"	0		30.28	67	67	65		bc.	cir cum	1	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *275* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2150* "

Coal consumed during the preceding 24 hours tons *1500* lbs.

Coal remaining on hand at Noon *139* " *520* "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	Calm	0		30.25	67	69	66		bc	cir and cum strat	1	S	
2	"		"	East	1		30.22	68	69	66		"	"	1	"	
3	Flood		E by S.	"	1		30.20	68	69	66		"	"	2	"	
4	"		"	"	1		30.20	69	69	66		"	"	1	"	
5	"		"	"	1		30.20	69	68	66		"	"	3	"	
6	"		"	"	1		30.20	69	69	66		"	"	3	"	
7 Swinging to Ebb			S. S. E.	Calm	0		30.20	69	69	66		"	cir cum	2	"	
8	"		W by N.	"	0		30.22	69	70	67		"	"	1	"	
9	"		"	"	0		30.23	70	70	67		"	"	1	"	
10	"		"	E. S. E	1		30.23	70	70	67		"	"	1	"	
11	"		"	"	1		30.23	69	69	66		oc	"	0	"	
Mid.	"		"	"	1		30.23	69	69	66		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday, January 3rd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cloudy with light Easterly airs Swinging to flood tide at 12^{25} Aneroid Barometer 30.32.

R.O. Bitler Ensign

4 to 8 A.M. Weather pleasant. Light breeze from E. to N.E. Barometer steady. Slack water at 5^{15}. Swung to Ebb at 6^{15}. Aneroid Barometer 30.36.

Lieut

8 A.M. to Meridian. Weather overcast and pleasant. Calm. Barometer rising. Mustered at quarters at 9^{30}. At 9^{40} called all hands down topgallant and royal yards, house topmasts, and down lower yards. Made preparations and rove off all gear for the exercise, and then secured at 9^{53}. Sent down topgallant and royal yards at 10^{05}. Rove off new topgallant yard ropes. Rigged main royal yard athwart main-mast, and exercised apprentices at loosing and furling. By order of Comd'g Officer gave John W Schluter (Lds) and Benjamin Campbell (P.Ms) 5 days solitary confinement on bread and water for fighting; - the punishment of the latter to begin upon the expiration of Schluter's term of confinement. Aneroid at end of watch 30.36.

Lieut

Meridian to 4 P.M. Cloudy and pleasant. Calm to light easterly airs. English Steamer left harbor. "Hankow" came in and anchored. Finished swinging to flood tide at 2.15. Aneroid Barometer 30.31.

R.O. Bitler Ensign

4 to 8 P.M. Weather clear and pleasant. Light airs and calms. Barometer steady. Mustered at quarters at 4^{45}. Began swinging to Ebb tide at 6^{45} finished at 7.15. Aneroid at end of watch 30.33.

Lieut

8 P.M. to Midnight. Weather cloudy and pleasant, overcast last two hours. Calm to light airs from E.S.E. Aneroid Barometer 30.33.

R.O. Bitler Ensign

Moon. l. mid Examined and found to be correct.
Dec. 2°-47'-28" S.
Phase New Moon

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	Calm	0		30.24	68	68	66		bc	cir cum and nimb	4	S	
2	"		"	"	0		30.24	68	68	66		"	"	3	"	
3	"		"	"	0		30.24	68	68	66		"	"	3	"	
4	"		"	"	0		30.24	68	68	66		"	"	2	"	
5	"		"	"	0		30.24	67	67	65		"	"	4	"	
6	"		"	N. E.	1		30.24	67	67	65		"	"	2	"	
7	Swinging to Ebb		South	"	1		30.26	67	66	65		"	cir cum and cum	5	"	
8	"		"	"	1		30.26	67	66	65		"	"	4	"	
9	"		W. N. W.	North	1		30.28	69	67	65		"	"	4	"	
10	"		"	"	2		30.29	69	68	65		"	"	3	"	
11	"		"	"	2		30.30	70	68	65		"	"	2	"	
Noon.	"		"	"	2		30.30	70	68	65		"	"	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *250* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1900* "

Coal consumed during the preceding 24 hours tons *1500* lbs.

Coal remaining on hand at Noon *138* " *1260* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	North	2		30.29	70	68	64		bc	cir cum	2	S	
2	Flood		E by S	"	2		30.26	70	68	64		"	"	3	"	
3	"		"	"	3		30.25	70	68	64		"	"	3	"	
4	Flood		E by S	"	3		30.25	70	68	64		"	"	2	"	
5	"		"	"	2		30.26	69	68	63		"	cir and cum-strat	3	"	
6	"		"	"	2		30.28	69	66	61		"	"	5	"	
7	"		"	"	2		30.28	69	66	61		"	"	5	"	
8	Ebb		W by N	"	2		30.28	69	65	60		"	cir cum	6	"	
9	"		W. N. W.	"	2		30.28	70	65	60		"	"	8	"	
10	"		"	"	2		30.28	70	64	60		"	"	7	"	
11	"		"	"	1		30.28	69	63	60		"	"	7	"	
Mid.	"		"	"	1		30.27	68	63	60		"	"	5	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Friday January 4th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and calm. Slack water at 12^{20}. Swung to the Flood at 12^{55}. Aneroid Barometer 30.33.

W.M. Irwin wm I Lieut

From 4 to 8 A.M. Weather cloudy and pleasant. Light airs and calms. Barometer rising. Began swinging to the Ebb tide at 7:35. In going around barely cleared the stern of H.B.M.S. "Fly" by lowering dingy and shoving apart with spars furnished by that ship. Finished swinging at 7:00. Crossed topgallant yards at 7:30. Aneroid at end of watch 30.39.

C.P. Rees PR Lieut

8 A.M. to Meridian. Cloudy and pleasant. with light breeze from North. At 9:30. went to general quarters for exercise without powder, and rigged spar torpedoes. Aneroid Barometer 30.36.

R.O. Bitler Ensign

Meridian to 4 P.M. Cloudy and pleasant. Gentle breeze from N^{d}. Barometer falling. Slack water at 1:20. Swung to the Flood at 3:15. Aneroid Barometer 30.33. At 1:00 exercised at Fire quarters.

W.M. Irwin wm I Lieut

4 to 8 P.M. Cloudy and pleasant. Light breeze from North. Mustered at quarters at 4:45. Slack water at 7:20. Finished swinging to Ebb at 7:50. Aneroid Barometer 30:37.

R.O. Bitler Ensign

8 P.M. to Midnight. Pleasant weather. Light breeze from N^{d}. Ebb tide. Aneroid Barometer 30 40

W.M. Irwin
w.m.I Lieut

Moon l mid Examined and found to be correct.
Dec 1°40'25"N.
Phase New Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W by N	North	1		30.28	67	62	58		oc	cir cum	0	S	
2	Flood		"	"	1		30.28	67	62	58		"	"	0	"	
3	"		E by S	"	1		30.28	67	62	58		"	"	0	"	
4	"		"	"	1		30.28	67	62	58		"	"	0	"	
5	"		"	"	2		30.28	65	61	57		"	cir and cum strat	0	"	
6	"		"	"	2		30.32	65	61	56		"	"	0	"	
Swinging to Ebb			"	"	2		30.36	62	61	57		"	"	0	"	
8	"		W by N.	"	1		30.38	62	60	56		bc	"	1	"	
9	"		W.N.W.	N.N.E.	1		30.40	64	60	56		"	cum strat and cir cum	1	"	
10	"		"	"	1		30.40	64	61	58		"	"	3	"	
11	"		"	N.E	1		30.40	64	62	58		"	"	3	"	
Noon.	"		"	Calm	0		30.38	65	63	59		"	"	3	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ☉ ° ′ ″

Longitude by Chronometer from Forenoon Observations ☉ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ☉ observed at ° ′ ″

Water expended during the preceding 24 hours 275 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1625 "

Coal consumed during the preceding 24 hours tons 1500 lbs.

Coal remaining on hand at Noon 137 " 2000 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		West	West	1		30.35	66	64	59		bc	cir cum	5	S	
2	"		"	"	1		30.31	67	65	60		"	"	3	"	
3 Swinging to Flood			"	"	1		30.30	67	65	60		"	"	4	"	
4	"		E.S.E	South	1		30.28	67	65	60		oc	"	0	"	
5	"		"	Calm	0		30.29	67	66	62		"	"	0	"	
6	"		"	"	0		30.31	67	66	62		"	"	0	"	
7	"		"	"	0		30.32	68	67	62		"	"	0	"	
8	"		"	N.E	1		30.33	67	67	62		"	cum and nimb	0	"	
9	"		W.N.W	Calm	0		30.34	67	67	62		"	"	0	"	
10 Swinging to Ebb			"	"	0		30.35	68	67	63		"	"	0	"	
11	"		"	"	0		30.35	68	66	62		"	"	0	"	
Mid.	"		"	"	0		30.36	68	66	62		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ☉ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday. January 5th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A. M. Cloudy. Pleasant. Light breeze from North. Slack water at 1:25. and at 2:30. finished swinging to Flood. Aneroid 30.40.

Wainwright Kellogg W.K. Lieut

4 to 8. A. M. Overcast and cloudy. Light airs from North. Rising Barometer. Slack water at 6^{55}. Swung to Ebb at 7:30. Anervid 30.48.

W.C. Atkins W.C.P.M. Ensign.

8. A. M. to Meridian. Cloudy and pleasant. Gentle breeze from N. N. E. hauling to N. E. Inspected and mustered at quarters at 9:30. Comdg Officer of H.B.M.S. "Fly" paid an official visit to the ship. Anerid Barometer 30.48.

W.M. Irwin W.M.I. Lieut

Meridian to 4 P. M. Clear and pleasant. Light airs from West. Slack water at 2:15. and at 3:00. finished swinging to Flood. Anerid 30.38.

Wainwright Kellogg W.K. Lieut

From 4. to 8 P. M. Overcast and cloudy. Calm. Mustered at quarters at 4.45. By order of Comdg Officer; Henry Hudson, (Cox) and R. C. Marrett. (O.S). were each given ten extra first watches, for fighting. Riding to the Flood. Anerid Barometer 30.44.

W.M. Irwin W.M.I. Lieut

8. P. M. to Midnight. Cloudy. Mild. Calm. Slack water at 8:45. and at 9:30. finished swinging to Flood. Anerid 30.44. Wainwright Kellogg W.K. Lieut

Moon ☾ mid
Dec 6°-07'-22" N.
Phase New moon.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W.N.W.	North	1		30.34	68	66	63		oc	cir cum and cum	0	S	
2	"		"	"	1		30.34	68	66	63		bc	"	2	"	
3	Swinging to Flood		E by S.	"	1		30.34	68	66	63		"	"	1	"	
4	"		E.S.E	"	1		30.33	68	65	62		"	"	1	"	
5	"		"	Calm	0		30.30	68	64	60		oc	"	0	"	
6	"		"	"	0		30.30	67	64	60		bc	"	1	"	
7	"		"	"	0		30.32	67	64	60		"	"	1	"	
8	"		"	"	0		30.33	67	64	60		"	"	1	"	
9	Ebb		W by N.	Variable	0-1		30.38	66	64	61		"	cir cum and strat	1	"	
10	"		"	"	0-1		30.38	67	65	62		"	"	2	"	
11	"		"	"	0-1		30.38	67	66	63		"	"	2	"	
Noon.	"		"	"	0-1		30.36	67	67	63		"	Circum	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 275 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1350 "

Coal consumed during the preceding 24 hours tons 1500 lbs.

Coal remaining on hand at Noon 137 " 500 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.															
1	Ebb		W by N	South	2		30.33	67	69	65		bc	circum	5	S
2	"		"	"	2		30.29	68	70	64		"	"	7	"
3	"		"	"	1		30.29	68	72	65		"	"	4	"
4	Swinging to Flood		E S. E.	"	1		30.28	68	71	65		"	"	4	"
5	"		"	Calm	0		30.28	69	70	65		"	"	5	"
6	"		"	"	0		30.27	71	70	66		"	circum and strat	4	"
7	"		"	"	0		30.27	71	70	66		"	"	7	"
8	"		"	"	0		30.27	71	70	66		"	Cir	8	"
9	"		"	"	0		30.30	69	68	65		"	Cirro-Cum	8	"
10	Ebb		W by N.	"	0		30.30	69	68	65		"	"	8	"
11	"		"	East	1		30.30	68	66	64		"	"	4	"
Mid.	"		"	"	1		30.30	68	66	64		"	"	2	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday January 6th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast first hour, Cloudy and pleasant. Light airs from North. Slack water at 2:30. Finished swinging to Flood at 3:15. Aneroid Barometer 30.40.

R.O. Bitler R.O.B. Ensign.

4 to 8 A.M. Cloudy and pleasant. Calm. Barometer steady. Flood tide. Aneroid Barometer 30.46.

W.M. Irwin
W.M.I. Lieut.

8 A.M. to Meridian. Cloudy. Pleasant. Light variable airs and calms. Slack water at 8:15. and at 8:55. finished swinging to Ebb. At 9:30. called all hands to muster and read articles for better Government of Navy, and general orders afterwards. Mustered the crew. Aneroid 30.44.

Wainwright Kellogg W.K. Lieut.

Meridian to 4 P.M. Pleasant weather. Light Southerly airs. Falling Barometer. Slack water at 3:10. Ship swinging to flood at 3:55. Aneroid at end of watch 30:35.

W.C.P. Muir W.C.P.M. Ensign

4 to 8 P.M. Clear and pleasant. Light airs and calms. Flood tide during watch. Aneroid 30.40.

Wainwright Kellogg
W.K. Lieut.

8 P.M. to Midnight. Fair and pleasant weather, with light airs from East. Barometer steady. Swung to Ebb at 10:10. Aneroid 30.42.

W.C.P. Muir W.C.P.M. Ensign

Moon C mid. Examined and found to be correct.
Dec. 10°-18'-24" N.
Phase. First Quarter

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W.N.W.	E.S.E	1		30.32	66	65	63		oc	cum and nimb	0	S	
2	"		"	East	1		30.32	66	65	63		"	"	0	"	
3	"		"	"	1		30.32	65	65	62		"	"	0	"	
4	"		"	Calm	0		30.32	65	65	62		"	"	0	"	
5	Swinging to Flood		E.S.E	"	0		30.32	65	65	62		"	"	0	"	
6	"		"	"	0		30.32	65	65	62		bc	"	2	"	
7	"		"	S.E.	1		30.34	66	65	62		"	"	3	"	
8	"		"	"	1		30.35	67	65	62		"	"	2	"	
9	"		"	East	1		30.38	67	63	61		oc	"	0	"	
10	Ebb		W by N	"	1		30.40	67	64	62		"	"	0	"	
11	"		"	"	1		30.40	67	65	63		bc	"	2	"	
Noon.	"		"	"	1		30.40	67	66	64		"	"	2	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ⊙	° ′ ″	
Longitude by Chronometer from Forenoon Observations ⊙	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ⊙ observed at	° ′ ″	
Water expended during the preceding 24 hours	250	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	1100	"
Coal consumed during the preceding 24 hours	tons	1400 lbs.
Coal remaining on hand at Noon	136 "	1340 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	N.N.W.	1		30.38	68	68	64		bc	cir cum and nimb	2	S	
2	"		"	"	1		30.36	68	68	64		"	"	4	"	
3	"		"	"	1		30.36	68	68	64		"	"	2	"	
4	"		"	North	1		30.36	68	69	64		"	"	2	"	
5	Flood		"	"	2.4		30.36	68	68	64		bcq	"	3	"	
6	"		E by S.	"	2.4		30.37	68	67	62		"	cir cum cum strat and nimb	2	"	
7	"		"	"	3-4		30.39	67	64	60		"	cir cum cum and nimb	1	"	
8	"		"	"	3-5		30.42	67	63	59		"	"	1	"	
9	"		"	"	4-6		30.43	67	63	59		"	"	1	"	
10	"		E by N	"	4-6		30.45	66	60	55		"	"	2	"	
11	"		N.W by N.	"	4-6		30.47	64	58	53		"	"	2	"	
Mid.	Ebb		W. N. W.	"	4-6		30.48	64	58	53		"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Monday January 7th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M. Weather pleasant. Light airs from E. to E.S.E. Calm in last hour of watch. Slack water at 4:00. Barometer steady. Fires banked under one boiler. Aneroid Barometer 30.40.

Karl Rohrer, Lieut.

4. to 8. A. M. Cloudy. Pleasant. Light S. E. airs and calms. Crossed royal yards. Finished swinging to Flood at 4:50. Aneroid 30.48.

Wainwright Kellogg Lieut.

8. A. M. to Meridian. Generally cloudy but pleasant. Light easterly winds. Barometer rising first half, steady latter part of watch. Ship swung to Ebb at 10:00. Went to quarters at 9:30 for divisional exercise and at 10 oclock had battalion drill. Hoisted boiler out of Steam Cutter. Aneroid 30:48.

W. C. P. Muir Ensign.

Meridian to 4 P. M. Weather pleasant. Light airs from N. N. W. to North. Barometer steady. Slack water at 3:45. Fires banked under one boiler. Aneroid Barometer 30.42.

Karl Rohrer, Lieut

4. to 8. P. M. Cloudy and squally. Moderate to stiff winds from E. by S. Rising Barometer. At 5:15. finished swinging to flood. At 5 o'clock sent down light yards and topgallant masts. Served out clean hammocks at quarters. Aneroid 30.52. Received in Pay Department for issue to crew. 90 lbs Fresh Beef and vegetables. and 72 loaves bread.

W. C. P. Muir Ensign

8 P. M. to Midnight. Weather squally but not unpleasant. Breeze stiff in squalls from North. Barometer rising. Swung to ebb at 11:00. Fires banked under one boiler. Aneroid Barometer 30.60.

Karl Rohrer, Lieut

Moon C mid
Dec 13° - 57' - 16" N.
Phase First Quarter.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W.N.W.	North	3-5		30.48	62	57	52		bcq	Nimb & cum strat	2	S	
2	"		"	"	2-4		30.48	61	57	52		"	"	2	"	
3	"		"	"	2-4		30.48	61	57	52		"	"	4	"	
4	"		"	"	3		30.48	61	53	51		bc	cum strat	4	"	
5	"		"	"	3-5		30.50	59	53	49		bcq	"	2	"	
6	Flood		"	"	2-4		30.50	59	54	49		"	cum strat and cir cum	7	"	
7	"		"	"	2-4		30.53	58	53	48		"	cir cum	7	"	
8	"		"	"	2		30.55	57	53	48		"	cir and cir cum	6	"	
9	"		"	N.N.E	3-5		30.58	62	54	48		"	"	6	"	
10	"		N.E	"	3-5		30.59	63	56	48		"	"	5	"	
11	"		"	"	3-5		30.60	64	57	48		"	"	5	"	
Noon.	Ebb		"	"	3-5		30.60	64	57	48		"	"	5	"	

	knots	fathoms.
Distance run by Log since preceding Noon		

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *230* gallons.

Water *distilled* during the preceding 24 hours *2200* "

Water remaining on hand fit for use at Noon *3070* "

Coal consumed during the preceding 24 hours *1* tons *660* lbs.

Coal remaining on hand at Noon *135* " *680* "

P. M.																
1	Ebb		N W. by W.	N. E	3-5		30.53	67	58	49		bcq	cir cum	5	S	
2	"		W by N	North	3-5		30.51	68	59	50		"	"	5	"	
3	"		"	"	1-3		30.49	68	59	50		"	"	3	"	
4	"		"	"	1-3		30.48	69	59	50		"	"	2	"	
5	"		"	"	3		30.50	69	59	51		bc	cir cum and strat	3	"	
6	Flood		E by S	"	2		30.50	69	58	51		"	"	3	"	
7	"		"	"	2		30.50	67	58	50		"	cir cum	6	"	
8	"		"	"	2		30.52	69	57	50		"	"	7	"	
9	"		"	"	2		30.54	72	57	49		"	"	5	"	
10	"		"	"	2		30.54	70	57	49		"	"	4	"	
11	"		"	"	2		30.54	70	57	49		"	"	4	"	
Mid.	Changing to Ebb		"	"	2		30.53	67	57	48		"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Tuesday January 8th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy and cool. Barometer steady. Wind blowing in fresh puffs from Nd. Riding to Ebb tide. Aneroid at end of watch 30.60.

C. P. Rees C.P.R. Lieut.

4 to 8 A.M. Fair but cool weather. Moderate to stiff winds from North in squalls. Rising Barometer. Wm L. Wells. (Apothy) and John Mac Anaspie. (Schl Mr) left ship on two days leave of abscence. At 7:30 sent up topgallant masts, and crossed topgallant yards. At 7:35 sent down topgallant yards. Started fires under No 1. Boiler at 4:04. and began distilling at 6:20. Slack water at 5:40. Aneroid at 8 A.M. 30.66.

W. C. P. Muir W.C.P.M. Ensign.

8 A.M. to Meridian. Weather pleasant but squally. Breeze fresh in squalls from N.N.E. At 9:30 mustered and inspected at quarters, and afterwards had great gun drill. Hoisted out sailing launch and exercised "Abandon Ship." Called away the battalion for landing. Slack water at 11:20. Distilling water. Aneroid Barometer 30.65. Released J. W. Schluter (Lds) from confinement and confined Benjamin Campbell (P.M.) in solitary confinement for five days, on bread and water, all by order of Captain.

Karl Rohrer K.R. Lieut.

Meridian to 4 P.M. Weather pleasant. Light to fresh breeze from North. Barometer falling. Riding to Ebb tide. Distilling. Aneroid at end of watch. 30.55.

C. P. Rees C.P.R. Lieut.

4 to 8 P.M. Weather pleasant. Light to fresh breeze from North. Barometer steady. At 4:45 mustered at quarters. Slack water at 4:05. Swung to flood at 5:55. Distilling water. Aneroid Barometer 30:60.

Karl Rohrer K.R. Lieut.

8 P.M. to Midnight. Weather partly cloudy and pleasant. Light breeze from N.W. Barometer rising. Bright moonlight. Stopped distilling at 10:45. Began swinging to Ebb tide at 11:55. Aneroid at end of watch 30:63.

C. P. Rees C.P.R. Lieut.

Moon l mid Examined and found to be correct.

Dec 16°-48'-25" N.

Phase First Quarter

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W.N.W.	North	1		30.53	63	53	46		bc	cir cum	8	S	
2	"		"	"	1		30.50	62	53	46		"	"	7	"	
3	"		"	"	1		30.49	60	50	44		"	"	7	"	
4	"		"	"	1		30.48	60	49	44		"	"	7	"	
5	"		"	"	1		30.48	59	49	44		"	"	8	"	
6	"		"	"	1		30.50	58	48	43		"	cirro.cum and cumi.strat	5	"	
7	"		"	"	1		30.50	54	49	44		"	"	6	"	
8	Flood		"	"	1		30.54	58	49	44		"	cir & strat	7	"	
9	"		N.W. by N.	"	1		30.55	63	49	43		"	cir cum	8	"	
10	"		E by S	"	1		30.55	64	53	45		"	cir	8	"	
11	"		"	"	1		30.55	65	55	46		"	"	8	"	
Noon.	"		"	S. E.	1		30.52	65	57	47		"	"	8	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 330 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2840 "

Coal consumed during the preceding 24 hours 1 tons 760 lbs.

Coal remaining on hand at Noon 133 " 2160 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Swinging to Ebb		S.W. by W.	N.W.	1		30.50	69	61	51		bc	cir cum	7	S	
2	"		W. N. W.	"	1		30.50	70	61	51		"	"	6	"	
3	"		"	"	1		30.45	70	62	51		"	"	6	"	
4	"		"	"	1		30.41	70	63	51		"	"	6	"	
5	"		W. N. W.	"	1		30.43	70	61	51		"	"	6	"	
6	Swinging to Flood		"	"	1		30.43	70	61	52		bcf	"	7	"	
7	"		E. S. E	N. E.	1		30.45	68	61	53		"	"	8	"	
8	"		"	"	1		30.45	68	61	53		"	"	8	"	
9	"		"	"	1		30.46	65	60	53		bc	"	8	"	
10	"		"	Calm	0		30.47	65	59	52		"	"	6	"	
11	"		"	"	0		30.47	65	58	52		"	"	8	"	
Mid.	"		"	"	0		30.47	64	56	51		"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday January 9th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool with light Northerly airs. Merchant Steamer came in and anchored. Finished swinging to Ebb at 12:25. Aneroid Barometer 30.64.

R.O. Bitler Ensign.

4 to 8 A.M. Weather clear and pleasant. Light breeze from North. Barometer steady. At 7:30 crossed topgallant and royal yards. Slack water at 7:00. Fires banked under one boiler. Aneroid Barometer 30.64.

Karl Rohrer, Lieut.

8 A.M. to Meridian Weather clear, cool, and pleasant. Light breeze from Nd. Barometer steady. Mustered at quarters at 9:30. At 9:40 called "all hands make sail" Exercised at making, shortening, and furling sail and shifting topsails until 11:00. Finished swinging to flood tide at 9:05. Aneroid at end of watch 30.60.

C.P. Rees Lieut.

Meridian to 4 P.M. Clear and pleasant. Light airs from N.W. At 1.00. furled sail. Slack water at 12:30. finished swinging to Ebb at 1:10. Aneroid Barometer 30.49. Steamer "Kin Kiang" came in.

R.O. Bitler Ensign

From 4 to 8 P.M. Weather clear and pleasant. Light breeze from Nd and Ed. Barometer steady. Mustered at quarters at 4:45. Sent down topgallant and royal yards at 4:30. Finished swinging to flood tide at 6:30. Aneroid at end of watch 30.54.

C.P. Rees Lieut.

8 P.M. to Midnight. Clear and cool. Light N.E. airs and calms. Aneroid Barometer 30.55.

R.O. Bitler Ensign.

Moon L mid Examined and found to be correct.
Dec 18°-36'-28" N.
Phase. First Quarter

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E.S.E	Calm	0		3043	64	56	53		bc	cir cum	8	S	
2	Swinging to Ebb		W.N.W.	〃	0		3040	64	56	52		b	–	10	〃	
3	〃		〃	〃	0		3038	64	55	51		〃	–	10	〃	
4	〃		〃	〃	0		3036	63	53	50		bc	cir	9	〃	
5	〃		〃	〃	0		3038	60	52	49		dcr	〃	9	〃	
6	〃		〃	〃	0		3039	59	50	48		〃	〃	8	〃	
7	〃		〃	〃	0		3040	58	52	50		〃	〃	7	〃	
8	〃		〃	〃	0		3040	58	52	50		〃	〃	7	〃	
9	Flood		〃	〃	0		3048	60	53	51		〃	cir cum	4	〃	
10	〃		E by S	N.N.W.	1		3044	65	53	51		〃	〃	4	〃	
11	〃		〃	〃	1		3048	65	55	53		bc	〃	6	〃	
Noon.	〃		〃	〃	1		3046	64	60	57		〃	〃	5	〃	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 240 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2600 "

Coal consumed during the preceding 24 hours tons 1300 lbs.

Coal remaining on hand at Noon 133 " 860 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	Flood		E.S.E	South	1		30.41	64	62	52		bc	cir cum	4	S	
2	Swinging to Ebb		〃	〃	1		30.39	64	63	52		〃	cir and cir cum	7	〃	
3	〃		W by N	〃	1		30.36	63	66	55		〃	〃	6	〃	
4	〃		〃	E.S.E	1		30.35	63	67	57		〃	〃	8	〃	
5	〃		〃	〃	1		30.37	65	66	57		〃	〃	3	〃	
6	〃		〃	〃	1		30.36	65	66	57		〃	〃	3	〃	
7	Swinging to Flood		N.E	S.E	1		30.36	65	66	57		〃	〃	4	〃	
8	〃		E.S.E	〃	1		30.36	66	66	57		〃	〃	6	〃	
9	〃		E by S	East	1		30.38	65	61	54		〃	〃	6	〃	
10	〃		〃	〃	1		30.38	65	60	56		〃	〃	4	〃	
11	〃		〃	〃	1		30.38	64	60	56		〃	cir & cum	4	〃	
Mid.	〃		〃	〃	2		30.38	64	60	55		bcd	〃	2	〃	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday January 10th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and calm. Bright starlight. Slack water at 12:55, finished swinging at 1:45 to the Ebb. Aneroid Barometer 30.50.

W.M. Irwin wmI Lieut.

4 to 8 A.M. Weather hazy and pleasant. Calm. Barometer rising. Riding to Ebb tide. Crossed topgallant and royal yards, and loosed sail to a bowline at 7:35. Shortened sail at 7:40. Aneroid at end of watch 30.56.

C.P. Rees CPR Lieut

8 A.M. to Meridian. Pleasant weather. Calm first hour, light airs from N.N.W. remainder of watch. Mustered at quarters at 9:30 after which exercised at company drill. By order of Comdg Officer. F. K. Bashforth (O.S.) was given fourteen first watches for indifference and neglect aloft, and W. H. Plimley (O.S.) was given seven first watches, for swearing aloft at all hands. Slack water at 8:25, finished swinging to the Flood at 9:40. Aneroid Barometer 30.56.

W.M. Irwin wmI Lieut.

Meridian to 4 P.M. Clear and pleasant. Light breeze from South to E.S.E. Slack water at 1:30 and at 2:20 finished swinging to Ebb. Aneroid 30.51.

Wainwright Kellogg WK Lieut

4 to 8 P.M. Pleasant weather. Light airs from E.S.E. to S.E. Slack water at 6:40. Swung to the Flood at 7:15. At 4:30 sent down Topgallant and Royal yards. Mustered at quarters at 4:45. Aneroid Barometer 30.48.

W.M. Irwin wmI Lieut.

8 P.M. to Midnight. Clear and pleasant. Light variable airs and calms. Bright moonlight. At 11:00 went to general quarters. 1st Division ready in 3' 30" 2nd Division 2' 00" 3rd 4' 00" Powder 1' 32" Eng's Div. 1' 30" Navigators Div. 1' 55" Marines 3' 00". Secured at 11:10. all secure in 1' 45" Aneroid 30.45. Flood tide during watch.

Wainwright Kellogg WK Lieut

Moon C mid Examined and found to be correct.
Dec 19° 11' 31" N
Phase First Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3^{d} Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E.S.E	East	1		3037	63	59	55		bc	cum & strat	2	S	
2	"		"	Calm	0		3037	63	59	55		oc	"	0	"	
3	Swinging to Ebb		W by N	"	0		3034	63	60	55		"	"	0	"	
4	"		"	"	0		3032	62	60	55		"	"	0	"	
5	"		"	"	0		3030	63	60	56		ocd	cir cum and nimb	0	"	
6	"		"	"	0		3030	63	60	56		"	"	0	"	
7	"		"	N.W.	1		3030	60	59	56		bcd	"	2	"	
8	"		"	"	1		3030	60	59	56		bc	cir cum	2	"	
9	"		"	N.N.W	1		3034	61	58	56		ocm	"	0	"	
10	"		"	"	1		3034	61	58	56		"	"	0	"	
11	Flood		E by S	"	1		3034	62	58	56		oc	"	0	"	
Noon.	"		"	"	1		3034	62	58	56		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2300. "

Coal consumed during the preceding 24 hours tons 1600 lbs.

Coal remaining on hand at Noon 132 " 1500 "

P. M.																
1	Flood		E by S	N.N.W.	2		30.30	62	60	56		bc	cir cum and nimb	1.	S	
2	"		"	"	2		30.28	63	60	56		ocr	cum & nimb	0	"	
3	Swinging to Ebb		N.W.	"	1		3026	62	60	57		oc	"	0	"	
4	"		W by N	"	1		3024	62	59	56		"	"	0	"	
5	"		"	"	1		3024	62	59	56		"	"	0	"	
6	"		"	"	1		3024	62	60	57		"	"	0	"	
7	"		"	"	1		3024	62	60	57		ocd	"	0	"	
8	Flood		"	"	1		3024	67	59	56		"	"	0	"	
9	"		E by S	"	1		3026	67	59	56		ocr	"	0	"	
10	"		"	"	1		3028	65	59	56		"	"	0	"	
11	"		"	"	1		3028	65	59	56		"	"	0	"	
Mid.	"		"	"	1		3028	65	59	56		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Friday January 11th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy. Calm with occasional light airs from East. Falling Barometer. Slack water at 2:00. Swung to Ebb at 2:40. Aneroid 30.44. at end of watch.

W.C. Allen Ensign.

4 to 8 A.M. Cloudy and cool, overcast first two hours and calm, light airs from N.W. last two hours. At 7:30 crossed topgallant yards. Aneroid Barometer 30.47.

W.M. Irwin
Lieut.

8 A.M. to Meridian. Cloudy. Damp. Light breeze from N.N.W. Slack water at 9:35. and at 10:35. Finished swinging to Flood. At 9:30. cleared ship for action, and went to general quarters and exercised the Divisions Aneroid 30:47.

Wainwright Kellogg
Lieut.

Meridian. to 4 P.M. Threatening with occasional light fall of rain. Light N.N.W. wind. Falling Barometer. Slack water at 2:30. Ship swung to Ebb at 3:10. Aneroid at 4 P.M. 30.38. Put a center shore under Steam Launch.

W.C. Allen Ensign

4 to 8 P.M. Cloudy. Damp. Light showers of drizzling rain. At 4:45. mustered at quarters. Slack water at 7:45. Aneroid 30:40.

Wainwright Kellogg Lieut

8 P.M. to Midnight. Rainy. Cool, and dis-agreeable. Light N.N.W. airs. Steady Barometer. Finished at 8:20. swinging to Flood tide. Aneroid at end of watch 30.40.

W.C. Allen Ensign.

Moon l mid Examined and found to be correct.
Dec 18° 30' 39" N.
Phase First Quarter

W. S. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	N.N.W.	1		30.28	63	59	57		ocr	Cum & nimb	0	S	
2	"		"	"	1		30.26	62	59	57		"	"	0	"	
3	Swinging to	Ebb	"	"	2		30.26	62	59	57		"	"	0	"	
4	"		W by N.	"	2		30.25	62	57	56		"	"	0	"	
5	"		"	"	1		30.26	61	57	56		ocd	"	0	"	
6	"		"	"	1		30.26	61	58	57		"	"	0	"	
7	"		"	"	1		30.26	61	58	57		"	"	0	"	
8	"		"	Calm	0		30.28	61	58	58		"	"	0	"	
9	"		W.N.W.	North	1		30.30	64	60	59		ocr	"	0	"	
10	"		"	"	1		30.32	65	61	60		"	"	0	"	
11	Swinging to	Flood	"	"	1		30.34	71	61	60		"	"	0	"	
Noon.	"		E by S.	"	1		30.35	71	61	60		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 275 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2025 "

Coal consumed during the preceding 24 hours tons 1880 lbs.

Coal remaining on hand at Noon 131 " 1940 "

P. M.																
1	Flood		E by S	W by N	1		30.32	70	61	60		ocdr	Cum and nimb	0.	S	
2	"		"	N by W	1		30.29	68	62	61		oc	Cum and cir cum	0	"	
3	"		"	"	1		30.27	68	63	62		bcm	"	1	"	
4	Ebb		"	"	1		30.27	68	63	62		"	"	1	"	
5	"		W by N	N.W.	1		30.28	67	64	62		bc	cir cum and strat	4	"	
6	"		"	"	1		30.28	67	65	63		"	cir & strat	8	"	
7	"		"	"	0-1		30.28	67	65	63		"	"	8	"	
8	"		"	"	0-1		30.30	67	64	62		"	"	8	"	
9	Swinging to	Flood	North	"	0-1		30.30	67	64	62		"	Cir	9	"	
10	"		E by S	Calm	0		30.30	67	64	62		"	"	9	"	
11	"		"	"	0		30.30	67	64	62		"	Cir Cum	6	"	
Mid.	"		"	"	0		30.30	67	64	62		"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday January 12th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather rainy. Light breeze from N.N.W. Barometer falling. Swung to Ebb at 3:20. Fires banked under one boiler. Aneroid Barometer 30.40.

Karl Rohrer, KR Lieut

4 to 8 A.M. Cloudy. Light drizzling rain. Ebb tide during watch. Aneroid 30:40. Light breeze from N.N.W.

Wainwright Kellogg WK Lieut

8 A.M. to Meridian. Overcast and rainy. Light airs from North. Rising Barometer. Slack water at 10:35. Swung around to flood at 11:35. Aneroid at noon 30.44.

W.C.P. Muir WCPM Ensign.

Meridian. to 4 P.M. Weather cloudy and damp in first hour of watch. Light breeze from W by N. to N.W. Barometer falling. Slack water at 3:00. Swung to Ebb at 3:30. Fires banked under one boiler. Aneroid Barometer 30.38.

Karl Rohrer KR Lieut.

4 to 8 P.M. Clearing weather. Calm to light N.W. airs. Barometer rising slowly. Went to quarters at 4:45. and turned in clean hammocks. Aneroid at 8 P.M. 30.40.

W.C.P. Muir WCPM Ensign.

8 P.M. to Midnight. Weather clear and pleasant. Calm. Barometer steady. Swung to flood tide at 9:00. Fires banked under one boiler. Aneroid Barometer 30.42.

Karl Rohrer, KR Lieut.

Moon l mid Examined and found to be correct.
Dec 16°-39'-58" N.
Phase. First Quarter

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S	North	1		30.30	65	62	60		bc	cir cum	8	S	
2	"		"	"	1		30.30	65	62	60		"	"	8	"	
3	"		"	"	1		30.28	64	60	59		"	"	8	"	
4	Ebb		S.S.E.	"	1		30.27	64	60	59		"	"	8	"	
5	"		W by N.	Calm	0		30.28	63	60	58		"	"	4	"	
6	"		"	"	0		30.30	63	60	58		"	cir and cum strat	3	"	
7	"		"	"	0		30.31	63	59	58		"	"	3	"	
8	"		"	"	0		30.34	63	60	58		"	cir and strat	8	"	
9	"		"	N.N.W	1		30.34	63	61	60		"	"	7	"	
10	"		"	"	1		30.36	64	63	61		"	cir cum cum & strat	1	"	
11	"		"	"	1		30.36	65	64	62		"	"	2	"	
Noon.	Flood		"	"	1		30.34	65	65	63		"	"	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 225 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1800 "

Coal consumed during the preceding 24 hours tons 1700 lbs.

Coal remaining on hand at Noon 131 " 240 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	N.N.W.	1		30.30	68	69	65		bc	cir cum and cum	3	S	
2	"		"	"	1		30.30	68	69	65		"	"	3	"	
3	"		"	"	0-1		30.30	69	69	65		"	"	3	"	
4	"		"	"	0-1		30.28	69	69	65		"	"	2	"	
5	Swinging to Ebb		W by N	N.W.	1		30.27	69	69	65		"	"	4	"	
6	"		"	W.N.W.	1		30.27	69	68	65		oc	cum and cir cum	0	"	
7	"		"	"	1		30.28	68	70	66		ocd	"	0	"	
8	"		"	"	1		30.28	68	70	66		"	"	0	"	
9	"		"	Calm	0		30.30	68	67	65		"	cum and nimb	0	"	
10	Swinging to Flood		E by S.	"	0		30.30	68	67	65		"	"	0	"	
11	"		"	"	0		30.32	68	67	65		oc	"	0	"	
Mid.	"		"	"	0		30.32	68	67	65		ocd	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Sunday January 13th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Bright moonlight. Light airs from North. Barometer falling. Began swinging to Ebb tide at 3:25. Finished at 4:00. Aneroid at end of watch 30.40. Three Chinese Men-of-war left the harbor at 12:45.

C. P. Rees Lieut

4 to 8 A.M. Fair and pleasant. Calm throughout. Rising Barometer. Ship swung to Ebb at 4:05. Aneroid at 8 A.M. 30.42.

W. C. P. Muir Ensign.

8 A.M. to Meridian Weather pleasant. Light breeze from N.N.W. Barometer rising. At 9:30 the Captain inspected the ship and crew at quarters. Low water at 11:00. Swung to flood at 12:00. Fires banked under one boiler. Aneroid Barometer 30.45. Released Benjamin Campbell (P.M.) from confinement by order of Captain.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather cloudy and pleasant. Light airs from Nd and Wd. Barometer steady. Aneroid at end of watch 30.34.

C. P. Rees Lieut.

4 to 8 P.M. Weather cloudy. Drizzling rain in latter part of watch. Light airs from N.W. to W.N.W. Barometer steady. Swung to Ebb at 4:30. Fires banked under one boiler. Aneroid Barometer 30.40.

Karl Rohrer, Lieut.

8 P.M. to Midnight. Weather overcast, with light drizzling rain. Barometer steady. Calm. Began swinging to flood tide at 9:15. finished at 10:00. Aneroid at end of watch 30.40.

C. P. Rees Lieut

Moon C mid Examined and found to be correct.
Dec 13°-50'-30" N.
Phase. Full Moon.

W. S. T. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex."*, *3d* Rate, *6* Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E. S. E	North	1		30.29	68	68	66		bc	circum and nimb	0	S	
2	〃		〃	〃	0-1		30.29	68	68	66		〃	〃	0	〃	
3	〃		〃	Calm	0		30.28	68	68	66		bc	〃	5	〃	
4	〃		〃	North	1		30.28	68	68	66		〃	〃	4	〃	
5	Ebb		W by N.	〃	1		30.28	67	66	64		〃	〃	4	〃	
6	〃		〃	〃	1		30.28	67	66	64		bcm	〃	3	〃	
7	〃		〃	〃	1		30.28	65	66	64		〃	〃	2	〃	
8	〃		〃	〃	1		30.28	65	66	64		〃	〃	1	〃	
9	〃		〃	Calm	0		30.32	66	66	64		bc	〃	1	〃	
10	〃		〃	N. W.	1		30.34	68	66	64		〃	〃	1	〃	
11	〃		〃	〃	1		30.34	68	67	65		〃	circum	5	〃	
Noon.	〃		〃	〃	1		30.30	68	67	66		〃	〃	6	〃	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1500* "

Coal consumed during the preceding 24 hours tons *1700* lbs.

Coal remaining on hand at Noon *130* " *780* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E. S. E	West	1		30.27	69	69	66		bc	cum and circum	4	S	
2	〃		〃	Calm	0		30.25	70	70	66		〃	〃	7	〃	
3	〃		〃	〃	0		30.23	71	72	66		〃	cir and circum	7	〃	
4	〃		〃	〃	0		30.23	73	72	66		〃	〃	8	〃	
5	Swinging to Ebb		〃	〃	0		30.23	72	72	67		〃	〃	8	〃	
6	〃		W by N	〃	0		30.23	73	72	68		〃	circum and strat	6	〃	
7	〃		〃	〃	0		30.23	73	72	68		〃	〃	6	〃	
8	〃		〃	〃	0		30.23	73	72	68		〃	〃	6	〃	
9	〃		〃	〃	0		30.26	71	70	67		〃	〃	5	〃	
10	〃		〃	〃	0		30.28	71	70	67		〃	cir cum	6	〃	
11	Flood		E S E	〃	0		30.28	70	69	66		〃	〃	5	〃	
Mid.	〃		〃	〃	0		30.24	69	69	66		〃	〃	5	〃	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Monday January 14th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy with light airs from North first two hours; calm and clearing latter part. Aneroid Barometer 30.37. Flood tide.

W. M. Irwin
wm I Lieut

4 to 8 A.M. Weather pleasant. Light airs from North. Barometer steady. Swung to Ebb at 4:10. Fires banked under one boiler. Aneroid Barometer 30.41.

Karl Rohrer, R Lieut.

8 A.M. to Meridian. Weather cloudy and pleasant. Light variable airs and calms. Barometer steady. Mustered at quarters at 9:30 and exercised 3rd Div. at single sticks, other divisions at small arms. Exercised at Battalion drill at 9:50. By order of Comdg Officer, James Stewart (Lds) was given 10 extra first watches for abusing W. R. Steward. The French Gunboat "Lutin" got under way at 10:50 and anchored out in the stream. Aneroid at end of watch 30.42.

C. P. Rees R Lieut

Meridian to 4 P.M. Clear and warm. Light airs from Wd first hour, calm remainder of watch. Barometer falling. The French Gunboat "Lutin" got under way and left the harbor. At 1:00 called all hands and furled sail. Slack water at 12:00, swung to the Flood at 12:45. Aneroid Barometer 30.30.

W. M. Irwin wmI Lieut

4 to 8 P.M. Weather clear and pleasant. Calm. Barometer steady. Sent down topgallant yards, and topgallant masts at 4:30. Mustered at quarters at 4:45. Aneroid at end of watch 30.32.

C. P. Rees Lieut

8 P.M. to Midnight. Clear and pleasant. Calm. Bright moonlight. Slack water at 10:10; swung to the Flood at 10:45. Aneroid Barometer 30.34.

W. M. Irwin wmI Lieut

Moon l mid Examined and found to be correct.
Dec 10°-20'-04" N.
Phase Full Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E.S.E	West	1		3026	68	68	65		bc	cir and cir cum	8	S	
2	"		"	Calm	0		3026	67	67	64		"	"	8	"	
3	"		"	"	0		3026	67	67	64		"	cir cum	2	"	
4	"		"	"	0		3026	67	67	64		"	"	2	"	
5	Swinging to Ebb		"	"	0		3024	67	67	64		bcm	"	2	"	
6	"		W by N	"	0		3024	67	67	64		"	"	1	"	
7	"		"	"	0		3024	67	67	64		"	"	3	"	
8	"		"	"	0		3026	67	67	64		"	"	3	"	
9	"		"	"	0		3028	67	67	64		"	"	3	"	
10	"		"	"	0		3030	69	69	66		"	"	4	"	
11	"		"	E.S.E	0		3033	69	69	64		bc	"	5	"	
Noon.	"		"	"	1		3033	69	70	64		"	"	5	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1250 "

Coal consumed during the preceding 24 hours tons 1700 lbs.

Coal remaining on hand at Noon 129 " 1320 "

P. M.																
1	Swinging to Flood		N.E	S.E	1		30.29	70	71	65		bc	Cir	9	S	
2	"		E.S.E	"	1		30.26	71	71	65		"	"	9	"	
3	"		"	"	1		30.23	72	72	66		"	"	8	"	
4	"		"	"	1		3022	73	72	66		"	"	8	"	
5	"		"	"	1		3022	73	71	65		"	"	9	"	
6	Swinging to Ebb		W by N	South	1		3022	72	70	65		"	cir & strat	8	"	
7	Ebb		"	"	2		3024	70	69	64		"	Cir	9	"	
8	"		"	"	2		3026	69	68	64		"	"	9	"	
9	"		"	"	1		3029	69	66	62		"	"	9	"	
10	"		"	"	1		3029	68	65	62		"	"	9	"	
11	"		"	"	1		3028	67	65	62		"	"	9	"	
Mid.	Flood		E by S	"	1		3028	65	65	62		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday January 15th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light variable airs and calms. Bright moonlight. Flood tide during watch. Aneroid 30.30.

Wainwright Kellogg WK Lieut

4 to 8 A.M. Weather cloudy and damp. Calm. Barometer steady. Sent up topgallant masts and yards at 7:30. Began swinging to Ebb tide at 4:40. finished at 5:15. Aneroid at end of watch 30.38.

C.P. Rees Lieut

8 A.M. to Meridian. Pleasant weather. Calm first part, light airs from E.S.E. latter part. At 9:30. mustered at quarters, and exercised at Great Gun drill. At 9:50 hoisted out sailing Launch and called away the Battalion. At 10:15. secured and hoisted in the Launch. By order of Comdg Officer Geo. H. Jordan (Lds) was given thirty hours extra duty for abusing W.R. Steward, and disobeying orders of Caterer of W.R. Mess. Aneroid Barometer. 30.40. Ebb Tide.

W.M. Irwin WMI Lieut

Meridian to 4 P.M. Clear and warm. Light breeze from S.E. Slack water at 12:15. and at 1:10. finished swinging to Flood. Aneroid. 30.30.

Wainwright Kellogg WK Lieut

4 to 8 P.M. Clear and pleasant. Light breeze from S.E. hauling to South. Sent down Topgallant yards at 4.40 Slack water at 5:20. swung to Ebb at 6:05. Aneroid Barometer. 30.38.

W.M. Irwin WMI Lieut

8 P.M. to Midnight. Clear and pleasant. Light airs from South. Bright moonlight. Slack water at 10:50. and at 11:10. finished swinging to Flood. Aneroid 30.40.

Wainwright Kellogg WK Lieut.

Moon l mid Examined and found to be correct.
Dec 6° 23′ 52″ N.
Phase. Full Moon.

W H Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		Ely S	S. E	1		3028	66	64	62		bc	cir	9	S	
2	"		"	"	1		3028	66	63	61		"	"	9	"	
3	"		"	Calm	0		3028	65	63	61		"	"	9	"	
4	"		"	"	0		3028	65	63	61		"	"	9	"	
5	"		"	"	0		3028	64	63	60		"	"	9	"	
Swinging to 6	Ebb		W by N	"	0		3028	64	62	59		"	"	9	"	
7	"		"	"	0		3030	63	62	60		"	cir and cir cum	5	"	
8	"		"	"	0		3032	63	62	60		"	cum and cir cum	2	"	
9	"		"	N.N.W	1		3032	63	63	61		"	"	3	"	
10	"		"	"	1		3034	63	63	61		"	"	2	"	
11	"		"	"	1		3036	65	64	62		"	"	1	"	
Noon.	"		"	"	1		3036	67	65	62		oc	"	0	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ' "	
Longitude by D. R. at Noon	° ' "	
Latitude by Observations at Noon ⊙	° ' "	
Longitude by Chronometer from Forenoon Observations ⊙	° ' "	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "	
Variation of the Compass by Azimuth ⊙ observed at	° ' "	
Water expended during the preceding 24 hours	250	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	1000	"
Coal consumed during the preceding 24 hours	tons 1700	lbs.
Coal remaining on hand at Noon	128 " 1860	"

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.															S	
1	Ebb		W by N	Calm	0		3029	67	65	62		oc	cum and cir cum	0	"	
2	Flood		Ely S	"	0		3026	67	67	63		"	"	0	"	
3	"		"	"	0		3026	67	67	63		"	"	0	"	
4	"		"	"	0		3026	67	67	63		"	"	0	"	
5	"		"	N. E	0-1		3026	68	68	64		bc	cir cum and cum strat	4	"	
6	"		"	"	0-1		3025	68	68	64		"	cir strat	7	"	
7	Ebb		W by N	Calm	0		3024	67	68	64		"	"	8	"	
8	"		"	"	0		3026	68	68	64		"	"	8	"	
9	"		"	"	0		3027	70	68	65		bcm	cir cum	7	"	
10	"		"	"	0		3027	70	68	65		"	"	7	"	
11	"		"	"	0		3027	68	66	63		b	–	10	"	
Mid. Swinging to	Flood		"	"	0		3027	68	66	63		"	–	10	"	

Longitude by Chronometer from Afternoon Observations ⊙	° ' "
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick , U. S. Navy,

Wednesday January 16th , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, bright and pleasant. Calm to light S.E. airs. Barometer steady. Ship riding to flood. Aneroid at 4 A.M. 30.40

W.C.P. Muir W C P M Ensign.

4 to 8 A.M. Pleasant weather. Calm. Slack water at 5:40, swung to the Ebb at 6:15. At 7:30 crossed Topgallant and Royal yards, and bent the gear. Aneroid Barometer 30.41

W.M. Irwin W M I Lieut

8 A.M. to Meridian. Cloudy. Pleasant. Light breeze from N.N.W. At 9:30 mustered at quarters. At 9:40 called "all hands" and exercised, making, and reducing sail, and shifting Topsails. Ebb tide during watch. Aneroid 30.44

Wainwright Kellogg W K Lieut

Meridian to 4 P.M. Overcast. Calm and pleasant. Falling Barometer. At 1.35 finished swinging to Flood. Received in Pay Department for issue to crew 90 lbs fresh beef and vegetables, 72 loaves bread. Hoisted Boiler in Steam Launch. Aneroid 30.35.

W.C.P. Muir W C P M Ensign.

4 to 8 P.M. Cloudy. Pleasant weather. Light airs from N.E. and Calms. Slack water at 6:05. swung to Ebb at 6:45. Aneroid 30.34. Wainwright Kellogg

W K Lieut

8 P.M. to Midnight. Clear. Calm and pleasant. Barometer steady. Slack water at 11:36. Aneroid at Midnight 30.36.

W.C.P. Muir W C P M Ensign.

Moon L mid Examined and found to be correct.
Dec 2°-16'-48" N.
Phase. Full Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	North	1		3027	66	63	60		bc	cir cum	8	S	
2	„		„	„	1		3027	66	63	60		„	„	8	„	
3	„		„	„	1		3026	66	62	60		„	„	9	„	
4	„		„	„	1		3026	66	62	60		„	„	9	„	
5	„		„	„	1		3026	65	62	59		„	cir	9	„	
6	„		„	Calm	0		3028	65	61	59		„	cir & strat	8	„	
7	Ebb		W by N	„	0		3030	64	61	59		bcm	„	8	„	
8	„		„	„	0		3034	62	61	59		„	„	8	„	
9	„		„	North	1		3036	64	62	60		„	cir & cum	7	„	
10	„		„	„	2		3038	64	63	61		„	cum and cir cum	2	„	
11	„		„	„	1		3038	65	64	62		bc	„	2	„	
Noon.	„		„	„	1		3038	66	65	62		„	„	3	„	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 700 "

Coal consumed during the preceding 24 hours tons 1800 lbs.

Coal remaining on hand at Noon 128 " 60 "

P. M.																
1	Ebb		W by N	W. N. W.	1		3036	68	68	64		bc	cir cum	4	S	
2	Swinging to Flood		W. N. W.	N. N. W.	1		3034	70	70	65		„	„	5	„	
3	„		E by S	„	1		3032	70	70	65		„	„	7	„	
4	„		„	„	1		3030	71	70	65		„	„	7	„	
5	„		„	North	2.4		3030	70	65	63		bcq	„	7	„	
6	„		„	„	2-4		3030	69	65	61		„	cir cum and nimb	3	„	
7	„		„	„	2.4		3033	68	65	59		„	„	3	„	
8	Ebb		„	„	2-4		3033	68	65	59		„	„	1	„	
9	„		W. N. W.	„	2		3036	67	63	58		bc	„	2	„	
10	„		„	„	2		3038	67	63	58		oc	„	0	„	
11	„		„	„	2		3038	66	62	57		„	„	0	„	
Mid.	„		„	„	1		3038	66	62	56		bc	„	3	„	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday January 17th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A.M. Clear and pleasant. Light airs from North. Barometer steady. Swung to flood tide at 12.15. Fires banked under one boiler. Aneroid Barometer 30.38.

Karl Rohrer, KR Lieut

4 to 8. A.M. Clear and pleasant. Light variable airs and calms. Slack water at 5:45; finished swinging to the Ebb at 6:25. Aneroid 30.46.

Wainwright Kellogg WK Lieut.

8. A.M. to Meridian. Weather fair and pleasant. Light airs from North. Barometer rising first half, steady latter half watch. At 9:30. called all hands to muster, and read an order from Comdg Officer. At 9:35. had fire quarters, after which drilled divisions as per routine. Exercised light yard men loosing, and furling light sails. At 10:30. furled sail. Aneroid at noon 30.48.

W.C.P. Muir W.C.P.M. Ensign

Meridian to 4 P.M. Weather clear and pleasant. Light breeze from W.N.W. to N.N.W. Barometer falling. Fires banked under one boiler. Fitting Steam Cutters new boiler. Threw overboard 1400. lbs of Flour, and 400. lbs of Bread, which were condemned to be thrown overboard by board of survey, and the recommendation was approved by the Captain. Low water at 1:20. Swung to Flood tide at 2:15. Aneroid Barometer 30.38.

Karl Rohrer, KR Lieut

4 to 8 P.M. Cloudy and cool. Moderate winds with occasional squalls from North. Rising Barometer. At 4:30. sent down Royal and Topgallant yards. Went to quarters for muster at 4.45. Slack water at 6:15. Finished swinging to Ebb at 7:05. Aneroid at 8 P.M. 30.44.

W.C.P. Muir W.C.P.M. Ensign

8 P.M. to Midnight. Weather pleasant. Light breeze from North. Barometer rising. Fires banked under one boiler. Riding to Ebb tide. Aneroid Barometer 30.50.

Karl Rohrer, KR Lieut

Moon l mid
Dec 1°-49'-26" S
Phase Full Moon

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3^d* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Swinging to Flood		W. N. W.	North	1		3039	66	62	57		bc	Cir cum	6	S	
2	"		E by S.	"	2		3039	63	61	57		"	"	4	"	
3	"		"	"	2		3039	65	59	55		"	"	8	"	
4	"		E. S. E	"	2		3037	64	58	54		"	"	8	"	
5	"		"	"	2		3037	63	57	52		"	"	8	"	
6	"		"	"	2		3037	63	57	52		"	"	8	"	
7	Ebb		W. N. W.	"	2		3039	60	57	52		"	"	8	"	
8	"		"	"	2		3040	58	57	52		"	"	8	"	
9	"		"	N. N. E	1		3043	62	58	53		"	Cir	9	"	
10	"		"	"	1		3043	62	60	55		"	"	9	"	
11	"		"	West	1		3043	62	60	55		"	"	9	"	
Noon.	"		"	"	1		3040	63	62	56		"	"	9	"	

Distance run by Log since preceding Noon	knots	fathoms.	
Latitude by D. R. at Noon	°	'	"
Longitude by D. R. at Noon	°	'	"
Latitude by Observations at Noon ⊙	°	'	"
Longitude by Chronometer from Forenoon Observations ⊙	°	'	"
Current during the time knots fms. per hour, setting to the			
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	'	"
Variation of the Compass by Azimuth ⊙ observed at	°	'	"
Water expended during the preceding 24 hours	300 gallons.		
Water *distilled* during the preceding 24 hours	800 "		
Water remaining on hand fit for use at Noon	1200. "		
Coal consumed during the preceding 24 hours	1 tons	960 lbs.	
Coal remaining on hand at Noon	126 "	1340 "	

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W. N. W.	West	1		3036	64	63	56		bc	cir and cir cum	7	S	
2	"		"	"	1		3034	66	66	58		"	"	8	"	
3	Flood		E. S. E	"	1		3032	66	66	59		"	"	7	"	
4	"		"	"	1		3032	67	67	59		"	cir	9	"	
5	"		"	"	1		3032	67	66	59		"	"	9	"	
6	"		"	"	1		3032	67	66	59		"	cir strat	7	"	
7	"		"	Calm	0		3030	68	66	59		"	cir	9	"	
8	Swinging to Ebb		"	"	0		3029	68	66	59		"	"	9	"	
9	"		W by N	"	0		3030	67	65	60		"	"	9	"	
10	"		"	"	0		3032	66	65	60		"	"	9	"	
11	"		"	"	0		3032	66	64	59		"	"	9	"	
Mid.	"		"	"	0		3032	65	63	59		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙	°	'	"
Longitude by Chronometer from Observations *	°	'	"
Variation of the Compass by Amplitude observed at sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander A. H. McCormick, U. S. Navy,

Friday January 18th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light breeze from Nd. Barometer steady. Began swinging to flood tide at 12:00, finished at 1:10. Aneroid at end of watch 30.48.

C. P. Rees Lieut.

4 to 8 A.M. Clear and pleasant. Light winds from North. Rising Barometer. Slack water at 6:25. Finished swinging to Ebb at 7:00. At 7:30 crossed topgallant yards, and mended furl of sail. Started fires under No. 1 boiler at 4:05 and began distilling at 7:00. Aneroid at 8 A.M. 30.43.

[illegible] Ensign.

8 A.M. to Meridian. Weather clear and pleasant. Light breeze from N.N.E. to West. Barometer steady. Riding to Ebb tide. At 9:30 went to General Quarters and exercised the crew, and afterwards had torpedo exercise. Distilling water. Aneroid Barometer 30.50.

Karl Rohrer Lieut.

Meridian to 4 P.M. Weather clear and pleasant. Light airs from Wd. Barometer falling. Slack water at 1:25. Finished swinging to Flood at 2:25. A Chinese Man-of-war left the harbor at 3:15. Aneroid at end of watch 30.39.

C. P. Rees Lieut.

4 to 8 P.M. Weather clear and pleasant. Light airs from West. Barometer falling slowly. Slack water at 7:35. Distilling water. At 4:30 mustered crew at quarters. By order of Captain placed R. C. Marrett (O.S.) W. F. Plummer (Lds) H. C. McCaffrey (C.A.G.) Thomas Noon (2nd cl. F.) W. C. Callip (O.S.) and Thomas J. Wynne (Firm) in double irons for safe keeping, and Thomas J. Wynne (Firm) in solitary confinement. Aneroid Barometer 30.42.

Karl Rohrer Lieut.

8 P.M. to Midnight Weather clear and pleasant: calm. Barometer steady. Began swinging to Ebb tide at 8:15, and finished at 9:00. Aneroid at end of watch 30.40.

C. P. Rees Lieut.

Moon l mid Examined and found to be correct.
Dec 5° 45' 30" S.
Phase. Full Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, 3d Rate, 6 Guns,

Anchored off Canton. China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	Force.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W.N.W.	N.E.	1		3033	63	62	58		bc	Cir	9	S	
2	Flood		E by S	"	1		3032	63	61	57		"	"	9	"	
3	"		"	Calm	0		3032	62	61	57		"	"	9	"	
4	"		"	"	0		3031	62	60	57		"	"	9	"	
5	"		E.S.E	"	0		3030	61	59	56		bcm	"	9	"	
6	"		"	"	0		3030	61	59	56		"	Cir Cum	8	"	
7	"		"	"	0		3030	61	59	56		"	"	8	"	
8	Swinging to Ebb		W.N.W.	"	0		3034	61	59	56		bc	"	8	"	
9	"		"	N.E.	1		3037	62	60	58		"	"	8	"	
10	"		"	"	1		3038	62	62	59		"	"	8	"	
11	"		"	E.S.E	1		3038	64	63	60		"	"	8	"	
Noon.	"		"	"	1		3038	64	64	60		"	"	6		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ' "	
Longitude by D. R. at Noon	° ' "	
Latitude by Observations at Noon ⊙	° ' "	
Longitude by Chronometer from Forenoon Observations ⊙	° ' "	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "	
Variation of the Compass by Azimuth ⊙ observed at	° ' "	
Water expended during the preceding 24 hours	250	gallons.
Water *distilled* during the preceding 24 hours	1960	"
Water remaining on hand fit for use at Noon	2910	"
Coal consumed during the preceding 24 hours	2 tons 120	lbs.
Coal remaining on hand at Noon	124 " 1220	"

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	Ebb		W.N.W	Variable	0-1		3033	66	66	61		bc	cir cum	6	S	
2	"		"	"	0-1		3030	67	68	62		"	"	7	"	
3	Flood		E.S.E	"	0-1		3028	69	70	63		"	"	8	"	
4	"		"	"	0-1		3028	69	69	63		"	"	8	"	
5	"		"	Calm	0		3028	68	68	63		"	Cir	9	"	
6	"		"	"	0		3028	67	68	63		"	"	9	"	
7	"		"	"	0		3028	67	68	64		"	"	9	"	
8	"		"	"	0		3029	67	68	64		"	"	9	"	
9	Ebb		W.N.W.	"	0		3030	67	67	63		"	"	9	"	
10	"		"	"	0		3030	67	67	63		"	"	9	"	
11	"		"	"	0		30.30	65	65	62		"	"	9	"	
Mid.	"		"	E.S.E.	1		30.30	65	65	62		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙	° ' "
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday January 19th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Bright moonlight. Calm and light airs from N.E. Slack water at 1:00. Swung to the Flood at 1:30.

W. M. Irwin Lt.

4 to 8 A.M. Weather pleasant. Calm. Barometer steady. High water at 7:00. Swung to Ebb at 7:45. Stopped distilling at 5:30. Aneroid Barometer 30.48.

Karl Rohrer, Lt.

8 A.M. to Meridian. Weather clear and pleasant. Light variable winds. Barometer steady. Mustered at quarters at 9:30. By order of Comdg Officer the following named men are given 5 days solitary confinement on bread and water for being drunk and disorderly on board ship; viz. Thomas J. Wynne (Fins 2) Thomas Noon (2 C.F.) Wm F. Plummer (Lds) W. C. Callip. (O.S). Released R. C. Marrett. (O.S) and H. C. McCaffrey (C. A. G) from confinement. Aired bedding. Aneroid at end of watch 30.48.

C. P. Rees Lieut

Meridian to 4 P.M. Clear and warm. Light variable airs. Slack water at 2:20. Swung to the Flood at 2.55. At 3.45 H.M.S. "Linnet" came in and anchored: sent an officer to tender the usual courtesies. Aneroid Barometer 30.36.

W. M. Irwin Lieut

4 to 8 P.M. Weather clear and pleasant. Calm. Barometer steady. Mustered at quarters at 4.45. Aneroid at end of watch 30.39.

C. P. Rees Lieut

8 P.M. to Midnight. Clear and calm. Bright starlight. Slack water at 8:00. Swung to the Ebb at 8:45. Aneroid Barometer 30.40.

W. M. Irwin Lieut

Moon L mid
Dec 9° 22' 41" S.
Phase. Full Moon.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex.", 3d Rate, 6 Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W.N.W.	E.S.E	1		3030	63	63	60		bc	Cir	9	S	
2	"		"	"	1		3030	63	63	60		"	"	9	"	
3	Swinging to Flood		E.S.E	"	1		3030	63	62	60		"	"	9	"	
4	"		"	"	1		3030	63	61	59		"	"	9	"	
5	"		"	"	1		3030	62	59	58		"	"	9	"	
6	"		"	East	1		3032	62	58	56		bcm	"	8	"	
7	"		"	"	1		3034	62	59	57		"	"	8	"	
8	Swinging to Ebb		"	"	1		3036	62	59	57		"	"	8	"	
9	"		W.N.W.	Calm	0		3036	63	61	59		bc	Cir Cum	8	"	
10	"		"	"	0		3036	63	63	61		"	"	8	"	
11	"		"	S.S.W	1		3038	63	63	61		"	"	8	"	
Noon.	"		"	"	1		3040	63	63	61		"	"	7	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 260 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2650 "

Coal consumed during the preceding 24 hours tons 1750 lbs.

Coal remaining on hand at Noon 123 " 1760 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W.N.W.	S by E	1		3037	65	68	62		bc	Cir cum	7	S	
2	"		"	"	1		3034	67	70	64		"	"	7	"	
3	Flood		E.S.E.	S. E.	1		3030	68	70	64		"	"	8	"	
4	"		"	"	1		3030	68	70	64		"	"	8	"	
5	"		"	S.S.W.	1		3030	69	69	63		"	"	7	"	
6	"		"	"	1		30.30	69	69	63		"	cir strat	7	"	
7	"		"	"	1		3030	69	68	64		"	Cir	8	"	
8	"		"	"	1		3030	69	67	63		"	"	8	"	
9	Swinging to Ebb		S E by E.	"	1		3032	70	67	63		"	"	8	"	
10	"		W. N. W.	"	2		3035	70	65	62		"	"	8	"	
11	"		W by N.	"	2		3035	69	65	62		"	"	8	"	
Mid.	"		"	"	2		3035	68	64	61		"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday January 20th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from E.S.E. Moonlight. Slack water at 2:35. and at 3:05. finished swinging to Flood. Aneroid 30.40.

Wainwright Kellogg Lieut

From 4 to 8 A.M. Weather clear and pleasant. Light airs from Ed. Barometer rising. H.B.M.S. "Linnet" left the harbor at 6:45. Began swinging to Ebb-tide at 7:45. Aneroid at end of watch. 30.48.

Lieut

8 A.M. to Meridian. Clear and warm. Calm first part, light airs from S.S.W. latter part. Mustered at quarters at 9:30. Comdg Officer inspected ship and crew. Finished swinging at 8:20. Aneroid Barometer 30.41.

W. M. Irvin Lieut

Meridian to 4 P.M. Clear and warm. Light airs from S×E. to S.E. Slack water at 2:00. and at 2:45. finished swinging to Flood. Aneroid 30.40.

Wainwright Kellogg Lieut

4 to 8 P.M. Pleasant weather. Light airs from S.S.W. Flood tide Aneroid Barometer 30.40.

W. M. Irvin Lieut

8 P.M. to Midnight. Clear and pleasant. Light breeze from S.S.W. Slack water at 8:35. finished swinging to Ebb at 10:00. Aneroid 30.44

Wainwright Kellogg Lieut

Moon C mid
Dec 12°-35'-22" S
Phase. Full Moon. 20

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W by N.	S.S.W.	1		3034	66	64	59		bc	cir cum	8	S	
2	"		"	"	1		3033	66	62	59		"	"	8	"	
3	"		"	"	1		3032	65	61	58		"	"	5	"	
4	Swinging to Flood		N by E	"	1		3032	65	61	58		"	"	5	"	
5	"		E by S	E.N.E	1		3033	65	60	57		"	"	5	"	
6	"		"	"	1		3033	64	60	57		"	cir cum and cum strat	2	"	
7	"		"	"	1		3037	64	60	57		"	"	2	"	
8	"		"	"	1		3038	63	60	57		"	"	3	"	
9	"		"	"	1		3040	64	60	57		"	cir cum and cum	4	"	
10	Swinging to Ebb		W.N.W.	"	1		3040	64	62	58		"	"	2	"	
11	"		"	"	1		3040	64	63	59		"	"	4	"	
Noon.	"		"	"	1		3028	64	64	60		"	"	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2400 "

Coal consumed during the preceding 24 hours tons 900 lbs.

Coal remaining on hand at Noon 123 " 860 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.															
1	Ebb		W.N.W.	S.S.E	1		30.38	65	68	62		bc	cir cum	6	S
2	"		"	"	1		3032	67	70	64		"	"	7	"
3	Swinging to Flood		"	"	1		3029	67	70	64		"	"	7	"
4	"		E.S.E	"	1		3027	67	70	64		"	"	4	"
5	"		"	"	1		3026	68	67	63		"	"	4	"
6	"		"	"	1		3024	68	67	63		"	"	4	"
7	"		"	"	1		3025	68	66	62		"	"	6	"
8	"		"	"	1		3025	68	66	62		"	"	6	"
9	"		"	"	1		3026	68	66	62		"	"	5	"
10	"		"	"	1		3028	65	64	61		"	"	6	"
11	Swinging to Ebb		S.S.W.	"	1		3028	65	63	59		oc	"	0	"
Mid.	"		W by N.	"	1		3028	63	63	60		"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Monday January 21st, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light S.S.W. wind. Falling Barometer. Aneroid at 4. A.M. 30.44. Slack water at 3:20.

W C P Muir W.C.P.M. Ensign

4 to 8 A.M. Cloudy and cool. Light breeze from E.N.E. At 7:20 crossed Royal yards and bent the gear of the light yards. Aneroid Barometer 30.48.

W. M. Irvin
W.M.I. Lieut

8 A.M. to Meridian. Cloudy. Pleasant. Light airs from E.N.E. Slack water at 9:15. Finished swinging to Ebb at 9:55. At 9:30. mustered at quarters. Exercised divisions at company drill, and then had battalion drill. Went to Fire Quarters. Aneroid 30.45. William F. Plummer (Lds) 5 first watches. for slow in coming aft when boat was called away. By order of Commanding Officer.

Wainwright Kellogg
W.K. Lieut

Meridian to 4 P.M. Clear and pleasant. Light S.S.E. airs. Falling Barometer. Slack water at 2:00. Swung to Flood at 3:20. Pay Department issued clothing as per requisition for January. Aneroid at 4 P.M. 30.34.

W C P Muir W.C.P.M. Ensign.

4 to 8 P.M. Clear and pleasant. Light airs from S.S.E. Flood tide during watch. Aneroid 30.36. At 4:30. sent down Topgallant and Royal yards and masts. Mustered at quarters at 4:45. Received in Pay Department 90 lbs Fresh Beef and vegetables, and 72 loaves Bread.

Wainwright Kellogg
W.K. Lieut

8 P.M. to Midnight. Generally cloudy. Barometer rising slowly. Light S.S.E. wind. Slack water at 10:10. Finished swinging to Ebb at 11:10. Aneroid at end of watch. 30.40

W C P Muir W.C.P.M. Ensign.

Moon L mid
Dec 15°-16'-15" S.
Phase. Last Quarter. 21

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex." , 3d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W by N.	S.S.E.	1		30.29	63	64	61		10c	cir cum and cum	0	S	
2	"		"	"	1		30.28	64	64	61		"	"	0	"	
3	"		"	"	1		30.28	64	64	61		bc	"	2	"	
4	"		W.N.W.	"	1		30.27	64	64	61		"	"	2	"	
5	"		"	"	1		30.25	63	63	60		"	"	6	"	
6	"		"	"	1		30.25	63	63	60		"	"	6	"	
7	Flood		E by S.	"	1		30.25	63	62	58		"	"	3	"	
8	"		"	"	1		30.25	63	62	58		"	"	2	"	
9	"		"	E.N.E.	1		30.28	64	62	59		"	"	3	"	
10	"		"	"	1		30.30	63	63	60		"	"	3	"	
11	"		"	"	1		30.30	66	67	61		"	"	4	"	
Noon.	Ebb		W by N.	S by E.	1		30.28	66	67	62		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2100 "

Coal consumed during the preceding 24 hours tons 300 lbs.

Coal remaining on hand at Noon 123 " 560 "

P. M.																
1	Ebb		W by N.	S.S.W.	1		30.26	66	68	63		bc	Cir Cum	4	S	
2	"		"	"	1		30.24	67	69	63		"	"	4	"	
3	"		"	"	1		30.22	67	70	64		"	"	5	"	
4	"		"	"	1		30.22	67	70	64		"	"	5	"	
5	Swinging to Flood		"	"	1		30.22	68	70	64		"	"	3	"	
6	"		E by S	"	1		30.22	68	70	64		"	"	3	"	
7	"		"	"	1		30.24	69	70	65		"	"	8	"	
8	"		"	"	1		30.22	69	70	65		"	"	8	"	
9	"		"	"	1		30.24	68	68	64		"	"	8	"	
10	"		"	"	1		30.26	66	68	64		"	"	7	"	
11	Swinging to Ebb		"	S.S.E.	1		30.26	66	66	63		"	"	7	"	
Mid.	"		W by N.	"	1		30.26	65	66	63		"	"	5	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. M^c^Cormick, U. S. Navy,
Tuesday. January 22^nd^, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A.M. Weather pleasant though cloudy. Light breeze from S. S. E. Barometer steady. Aneroid Barometer 30.40.

Karl Rohrer Lieut

4 to 8 P.M. Cloudy, pleasant. Light airs from S. S. E. At 7:30. sent up topgallant masts, and yards. Slack water at 5:45, finished swinging to Flood at 6:20. Aneroid 30:40.

Wainwright Kellogg Lieut

8. A.M. to Meridian. Bright pleasant weather. Light E. N. E. airs. Barometer rising first half, steady latter half watch. Went to quarters at 9:30. for drill as per routine, after which armed and equipped all boats for distant service. Slack water at 10:45. Finished swinging to Ebb at 11:35. Aneroid at noon 30.38.

W.C.P. Muir Ensign.

Meridian to 4 P.M. Weather clear and pleasant. Light breeze from S.S.W. Barometer falling. Cirro cumulus clouds. Riding to Ebb tide. Aneroid Barometer 30:30.

Karl Rohrer, Lieut

4 to 8. P.M. Fair and pleasant. Light S.S.W. airs. Rising Barometer. Sent down topgallant yards at 4:30. Went to quarters for muster at 4:45. Slack water at 4:12. Finished swinging to flood at 4.45. Aneroid at 8 P.M 30.32.

W.C.P. Muir Ensign.

8. P.M. to midnight. Weather clear and pleasant. Light breeze from S.S.W. to S.S.E. Barometer steady. Cirro cumulus clouds. Swung to Ebb at 11:30. Aneroid Barometer 30.38.

Karl Rohrer Lieut

Moon l mid Examined and found to be correct.
Dec. 17°-19'-07" S.
Phase Last Quarter. "

W. S. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate, 6 Guns,
Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N.	S.S.E	1		30.24	64	65	62		bc	cir cum and cum	2	S	
2	"		"	"	1		30.23	64	65	62		"	"	1	"	
3	"		"	Calm	0		30.23	64	64	62		"	"	2	"	
4	"		"	"	0		30.22	63	64	62		"	"	2	"	
5	"		"	"	0		30.21	64	65	63		"	"	4	"	
6	"		"	"	0		30.21	64	65	63		oc	"	0	"	
7	"		"	"	0		30.21	64	65	63		bc	"	2	"	
8	Swinging to Flood		E by S.	S.S.E.	1		30.20	64	65	63		"	"	3	"	
9	"		"	E by N.	1		30.25	65	65	62		"	"	1	"	
10	"		"	N.E.	1		30.25	66	65	62		"	cum and cir cum	2	"	
11	"		"	"	1		30.24	68	68	64		"	"	2	"	
Noon.	"		"	S.E.	1		30.23	68	68	64		"	"	1	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1800 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 123 " 160 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N.	Variable	0-1		30.20	68	70	66		bc	strat and cir cum	2	S	
2	"		"	"	0-1		30.19	69	71	66		"	"	1	"	
3	"		"	"	0-1		30.18	70	70	66		"	"	2	"	
4	"		"	"	0-1		30.18	69	71	67		"	"	3	"	
5	"		"	W.N.W.	1		30.18	69	70	66		"	"	3	"	
6	Swinging to Flood		E by S.	Calm	0		30.18	69	71	67		"	"	1	"	
7	"		"	"	0		30.20	70	72	68		oc	cum and nimb	0	"	
8	"		"	"	0		30.20	71	72	68		"	"	0	"	
9	"		"	"	0		30.21	71	72	68		"	"	0	"	
10	"		"	"	0		30.21	71	72	68		"	"	0	"	
11	"		"	"	0		30.22	71	72	68		bc	cir cum	3	"	
Mid.	Swinging to Ebb		"	"	0		30.22	71	72	68		oc	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday January 23rd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy and pleasant. Light airs from Ed. Barometer steady. Aneroid at end of watch 30.32.

CPRees Lieut

4 to 8 A.M. Cloudy but pleasant. Light airs from Ed and Nd. Falling Barometer. Finished swinging to flood tide at 7:45. Sent up light yards at 7.30. Aneroid at 8 A.M. 30.34.

W.H.Allen Ensign.

8 A.M. to Meridian. Weather clear and pleasant. Light airs from S.E. to N.E. Barometer falling. Cumulus and cirro cumulus clouds. Mustered and inspected crew at quarters at 9.30. Exercised at making, shortening, and furling sail. High water at noon. Aneroid Barometer 30.32.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather calm and pleasant. Light variable airs and calms. Barometer falling. Sent party on shore to participate in athletic sports. Began swinging to Ebb tide at 12:05. – finished at 12:50. Aneroid at end of watch 30.24.

CPRees Lieut

4 to 8 P.M. Weather pleasant. Calm in latter part of watch and light airs from W.N.W. in first part. Barometer steady. Slack water at 5:00, and finished swinging to flood tide at 5:50. Hoisted in sailing Launch, and sent down royal and topgallant yards. By order of Captain placed Jas Kelly (Sea) Thos Fitzpatrick (P.M.) Bernard Burns (P.M.) and A. W. Kain (P.M.) in double irons for safe keeping. Aneroid Barometer 30.30.

Karl Rohrer Lieut.

8 P.M. to Midnight. Weather cloudy and pleasant. Calm. Barometer rising. Began swinging to Ebb tide at 11:40. – finished at 12:00. Aneroid at end of watch 30.30.

CPRees Lieut

Moon L mid
Dec 18°-37'-59" S
Phase Last Quarter

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W by N	Calm	0		3021	61	69	67		bc	cum and nimb	2	S	
2	"		"	"	0		3020	69	70	67		"	"	2	"	
3	"		"	"	0		3020	69	70	68		"	"	2	"	
4	"		"	"	0		3020	69	69	67		"	"	1	"	
5	"		"	"	0		3020	69	69	67		"	"	1	"	
6	"		"	"	0		3020	67	69	66		"	"	2	"	
7	"		"	"	0		3022	68	69	67		"	cir cum and strat	2	"	
8	"		"	"	0		3024	68	69	67		"	"	2	"	
9	"		"	"	0		3026	71	69	67		"	"	1	"	
10	Swinging to Flood		E by S	"	0		3026	72	72	69		oc	cir cum	0	"	
11	"		"	"	0		3026	72	72	69		"	"	0	"	
Noon.	"		"	"	0		3026	72	72	69		"	"	0	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ⊙	° ′ ″	
Longitude by Chronometer from Forenoon Observations ⊙	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ⊙ observed at	° ′ ″	
Water expended during the preceding 24 hours	300	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	1500	"
Coal consumed during the preceding 24 hours	tons 300	lbs.
Coal remaining on hand at Noon	122 " 2100	"

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	Calm	0		3023	71	72	69		bc	cir cum	3	S	
2	Ebb		W.N.W.	"	0		3023	71	72	69		"	"	4	"	
3	"		"	S.S.E	1		3020	71	72	69		oc	cum and cir cum	0	"	
4	"		"	"	1		3020	72	72	69		"	"	0	"	
5	"		"	Calm	0		3020	72	72	69		"	"	0	"	
6	"		"	"	0		3022	72	72	69		"	cum-strat and nimb	0	"	
7	Flood		E. by S	"	0		3022	74	72	69		"	cum and nimb	0	"	
8	"		"	"	0		3024	73	72	69		"	"	0	"	
9	"		"	"	0		3024	73	72	69		"	"	0	"	
10	"		"	"	0		3025	75	73	70		ocr	"	0	"	
11	"		"	"	0		3025	75	73	70		"	"	0	"	
Mid.	"		"	"	0		3025	75	73	70		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙	° ′ ″
Longitude by Chronometer from Observations *	° ′ ″
Variation of the Compass by Amplitude observed at sunset	° ′ ″
Variation of the Compass by at	° ′ ″

under the command of Commander A. H. McCormick. , U. S. Navy,

Thursday. January 24th , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Calm. Barometer steady. Ebb tide. Aneroid Barometer. 30.30.

W.M. Irvin w.m.I. Lieut

4 to 8 A.M. Weather cloudy but not unpleasant. Calm. Barometer rising. Riding to Ebb tide. Crossed Royal and Topgallant yards, and loosed, and furled sail. Aneroid Barometer. 30.34.

Karl Rohrer Lieut

From 8. A.M. to Meridian. Weather cloudy and sultry. Barometer steady. By order of Comdg Officer released Jas Kelly (Sea) Thos. Fitzpatrick (P.M.) Bernard Burns (P.M.) and A.W. Kain (P.M.) from confinement. Placed Thos. Noon (2cF.) in solitary confinement on bread and water for five days in accordance with sentence of 19th inst. and released Thos. J. Wynne. Harvey Lake (P.M.) was given two extra posts for using profane and vulgar language in presence of an Officer. A.W. Kain (P.M.) and Thos Fitzpatrick (P.M.) to make up posts lost by being drunk from liberty, and B. Burns (P.M.) 10 extra posts for impertinence at the mast, and interfering with the Ships Corporal whilst in the execution of his duty: also placed in double irons to await trial by Court Martial for further impertinence and disrespect to Comdg Officer. Mustered at quarters at 9:30. and exercised 1st Div. at skirmish drill, 2nd Div. and Marine Guard at small arms, and 3rd Div. at Gatling Gun. Got out Steam Cutter, and hoisted 1st Whaleboat inboard. Aneroid at end of watch 30.34

C.P. Kee Lieut.

Meridian to 4 P.M. Cloudy and warm. Calm and light airs from S.S.E. Barometer steady. Hoisted Steam Cutter. Slack water at 1.00. Swung to the Ebb at 1:55. Aneroid Barometer. 30:30.

W.M. Irvin w.m.I. Lieut

4 to 8 P.M. Cloudy. Warm. Light variable airs and calms. Slack water at 6:25. and at 6:55 finished swinging to Flood. At 4:45. mustered at quarters, - at 4 30. sent down Topgallant and Royal yards. Aneroid 30:38.

C.P. Kee Lieut

8 P.M. to Midnight. Overcast and cloudy, with light rain latter part. Calm. Flood tide. Aneroid Barometer. 30.30

W.M. Irvin w.m.I. Lieut

Moon C mer. Examined and found to be correct.
Dec. 19°-06'-58" S.
Phase. Last Quarter

W. S. H. Parker
Lieut. and Navigator.

LOG of the UNITED STATES Steamer "Essex.", 3d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S	Calm	0		3022	73	70	70		ocr	cir cum	0	S	
2	Ebb		W.N.W.	"	0		3021	72	70	69		oc	cum and cir cum	0	"	
3	"		"	"	0		3020	71	69	68		"	"	0	"	
4	"		"	"	0		3020	70	69	68		"	"	0	"	
5	"		"	Variable	0-1		3020	70	69	68		ocd	cum-strat and nimb	0	"	
6	"		"	"	0-1		3020	69	70	68		"	"	0	"	
7	"		"	"	0-1		3023	70	70	68		"	"	0	"	
8	"		"	"	0-1		3027	70	70	68		"	cum and nimb	0	"	
9	"		"	East	1		3027	70	70	69		bcd	cum and cir cum	2	"	
10	"		"	"	1		3027	70	70	68		bc	"	4	"	
11	Swinging to Flood		E.S.E.	S. E.	2		3027	71	70	68		"	"	2	"	
Noon.	"		E.S.E	"	2		3025	71	70	67		"	cirro strat and cir cum	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1200 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 122 " 1700 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E.S.E.	S. E	2		3023	73	70	67		bc	cir cum and cum	2	S	
2	"		"	S.S.E	2		3023	72	69	67		"	"	1	"	
3	Swinging to Ebb		W.N.W.	"	2		3022	71	69	67		"	"	1	"	
4	"		"	"	2		3022	71	69	67		"	"	1	"	
5	"		"	Calm	0		3022	71	69	67		ocd	"	0	"	
6	"		"	E.S.E	1		3026	71	69	67		bc	"	2	"	
7	"		E.S.E	"	1		3020	71	70	69		"	"	1	"	
8	Flood		"	"	1		3020	71	70	69		oc	"	0	"	
9	"		"	Calm	0		3025	70	70	68		ocd	cum and nimb	0	"	
10	"		"	N.N.E	1		3025	70	71	68		oc	"	0	"	
11	"		"	Calm	0		3025	69	71	68		"	"	0	"	
Mid.	"		"	"	0		3025	69	70	68		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Friday January 25th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Rainy. Calm. Slack water at 12:00. and at 1:10. finished swinging to Flood Aneroid 30.30.
Wainwright Kellogg WK Lieut

4 to 8 A.M. Weather cloudy with drizzling rain. Light variable airs and calms. Barometer rising. Crossed topgallant yards at 7:40. Aneroid at end of watch 30.36.
C. A. Rees Lieut

8 A.M. to Meridian. Cloudy with light drizzling rain first hour. Light airs from Ed hauling to S.E. Slack water at 8:45. - finished swinging to the Flood at 10:20. At 9:30 exercised at General Quarters, after which gave the Divisions fifteen minutes oral instruction. Aneroid Barometer 30.30.
W. M. Irwin WMI Lieut

Meridian to 4 P.M. Cloudy. Light drizzling rain last hour of watch. Slack water at 2:30. and at 3:30. finished swinging to Ebb. Light breeze from S.E. Aneroid 30.30.
Wainwright Kellogg WK Lieut

4 to 8 P.M. Cloudy. Light airs from E.S.E. Swung to Flood tide at 7:50. Mustered at quarters. Aneroid. 30.30.
W. M. Irwin WHP Lieut

8 P.M. to Midnight. Cloudy. Light variable airs and calms. Flood tide during watch. Aneroid 30.34.
Wainwright Kellogg WK Lieut

Moon l' mid Examined and found to be correct.
Dec 18°-42'-0"S.
Phase. Last Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex". 3^d Rate, 6 Guns,
Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Swinging to Ebb		E.S.E	Calm	0		3022	69	70	69		ocd	cir cum and nimb	0	S	
2	"		S.E.	"	0		3022	70	70	68		"	"	0	"	
3	"		W.N.W.	"	0		3022	70	69	67		ocr	"	0	"	
4	"		"	W.N.W.	1		3022	69	68	67		bcr	"	3	"	
5	"		"	"	1		3022	67	67	66		bcq	"	2	"	
6	"		"	"	1		3022	67	67	66		"	"	1	"	
7	"		"	N.N.W.	1		3023	67	67	66		ocz	"	0	"	
8	"		"	"	1		3023	67	67	66		"	"	0	"	
9	"		"	Variable	0-1		3027	68	67	66		oc	cirro strat and nimb	0	"	
10	Flood		"	"	0-1		3030	69	68	67		"	"	0	"	
11	"		E by S	"	0-1		3030	70	69	68		bc	cir cum	4	"	
Noon.	"		"	"	0-1		3026	70	70	69		"	"	5	"	

Distance run by Log since preceding Noon knots fathoms.
Latitude by D. R. at Noon ° ′ ″
Longitude by D. R. at Noon ° ′ ″
Latitude by Observations at Noon ⊙ ° ′ ″
Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″
Current during the time knots fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″
Variation of the Compass by Azimuth ⊙ observed at ° ′ ″
Water expended during the preceding 24 hours 300 gallons.
Water during the preceding 24 hours "
Water remaining on hand fit for use at Noon 900 "
Coal consumed during the preceding 24 hours tons 300 lbs.
Coal remaining on hand at Noon 122 " 1400 "

P. M.																
1	Flood		E.S.E.	S.S.W.	1		3024	71	71	68		bc	cum and cir cum	4	S	
2	"		"	"	1		3022	71	71	68		"	"	4	"	
3	"		"	"	1		3020	72	71	68		"	"	5	"	
4	Swinging to Ebb		W by N.	"	1		3020	72	72	69		"	cum strat and nimb	5	"	
5	"		"	West	1		3020	72	72	69		"	"	1	"	
6	"		"	N.W.	1		3019	72	72	69		"	"	2	"	
7	"		"	"	1		30.19	72	72	69		"	"	6	"	
8	"		"	"	1		30.19	72	72	69		"	"	6	"	
9	Flood		E by S.	N by W.	1		3022	71	71	68		"	cir cum	7	"	
10	"		"	"	1		3022	70	70	67		"	"	7	"	
11	"		"	"	1		3022	69	70	67		"	"	7	"	
Mid.	"		"	"	1		3022	69	69	66		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″
Longitude by Chronometer from Observations * ° ′ ″
Variation of the Compass by Amplitude observed at sunset ° ′ ″
Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday January 26th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and rainy. Generally calm. Falling Barometer. Slack water at 1:00.- finished swinging to Ebb at 2:15. Aneroid at 4 A.M. 30.32.

W.C.P.Muir WCPM Ensign.

4 to 8. A.M. Weather cloudy and misty. Light airs from W.N.W. to N.N. W. Barometer steady. Aneroid at end of watch 30.34.

R.S.McK Lieut.

8. A.M. to Meridian. Cloudy. Warm. Light variable airs and calms. At 9.30. mustered at quarters, and inspected bags and hammocks. Slack water at 9.30. and at 10:35. finished swinging to Flood. Aneroid 30.35.

Wainwright Kellogg WK Lieut

Meridian to 4 P.M. Fair and warm. Light S. S. W. airs. Barometer falling. At 1:00. furled sail. Slack water at 2:50. finished swinging to Ebb at 3.30. Aneroid at 4 P.M. 30.28.

W.C.P.Muir WCPM Ensign.

4 to 8. P.M. Clear and warm. Light variable airs. At 4.45. mustered at quarters. Ebb tide during watch. Aneroid 30.30.

Wainwright Kellogg WK Lieut

8. P.M. to Midnight. Clear and cool. Light N by W. airs. Steady Barometer. Slack water at 8:05.- finished swinging to Flood at 8:35. Aneroid at end of watch 30.32.

W.C.P.Muir WCPM Ensign.

Moon L mid. Examined and found to be correct.
Dec 17°-21'-18" S.
Phase Last Quarter

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3^d Rate, 6 Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E.S.E	N by W.	1		3023	68	68	65		bc	cum and cir cum	4	S	
2	"		"	"	1		3023	68	67	65		"	"	7	"	
3	"		"	"	1		3023	68	67	65		"	"	6	"	
4	Swinging to Ebb		W.N.W.	"	1		3022	66	67	65		"	"	4	"	
5	"		"	"	1		3022	68	68	64		"	"	1	"	
6	"		"	"	1		3022	68	68	64		"	"	2	"	
7	"		"	"	1		3023	67	67	64		"	"	2	"	
8	"		"	"	2		3024	67	67	64		"	"	2	"	
9	"		"	"	1		3029	67	67	64		"	"	2	"	
10	"		W by N.	N by E.	1		3028	68	67	64		"	"	4	"	
11	"		"	"	1		3028	68	67	64		"	"	5	"	
Noon.	Flood		E.S.E	"	1		3028	70	70	66		"	"	6	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300. gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 600. "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 122 " 1000 "

P. M.																
1	Flood		E.S.E	W.N.W.	1		3022	70	72	67		bc	cir cum	4	S	
2	"		"	"	1		30.19	71	73	68		"	"	5	"	
3	"		"	"	1		3018	71	73	68		"	"	4	"	
4	Ebb		W by N	N.W.	1		30.18	72	74	68		"	"	4	"	
5	"		"	"	1		3017	72	74	68		"	cir strat & cir cum	7	"	
6	"		"	"	1		3017	72	73	68		"	cir and strat	7	"	
7	"		"	Calm	0		3017	72	73	68		"	cir cum	6	"	
8	"		"	S.E.	1		3017	72	73	68		oc	"	0	"	
9	Flood		S.E by S	S.S.E.	2		3017	71	70	67		ocp	cum and nimb	0	"	
10	"		E by S	"	2-4		3017	71	68	65		ocqp	"	0	"	
11	"		"	"	2-4		3017	68	68	65		ocq	"	0	"	
Mid.	"		"	"	2		30.17	68	67	65		oc	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday. January 27th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light breeze from N by W. Barometer steady. Swung to Ebb tide at 3.00 Aneroid Barometer 30.30.

Karl Rohrer KR Lieut.

4 to 8 A.M. Cloudy. Pleasant. Light breeze from N by W. Ebb tide during watch. Aneroid 30.30.

Wainwright Kellogg WK Lieut.

8 A.M. to Meridian. Pleasant weather with light N by E airs. Barometer rising first half, steady latter half watch. Slack water at 10:20. - finished swinging to flood at 11:35. Aneroid at end of watch 30.36. At 9.30 Comd'g Officer inspected ship and crew at quarters.

W.C.P. Muir WCPM Ensign.

Meridian to 4 P.M. Weather clear and pleasant. Light breeze from W.N.W. Barometer falling. Cirro cumulus clouds. Swung to Ebb tide at 3:50. Aneroid Barometer 30.22.

Karl Rohrer KR Lieut

4 to 8 P.M. Clear and pleasant. Calm to light N.W. airs. Steady Barometer. Ship riding to Ebb tide. Aneroid at 8 P.M. 30.24.

W.C.P. Muir WCPM Ensign.

8 P.M. to Midnight. Weather overcast, cloudy, squally with passing showers of rain in first part of watch. Breeze light to moderate in squalls from S.S.E. Barometer steady. Swung to flood tide at 9:00. Aneroid Barometer 30.28.

Karl Rohrer KR Lieut.

Moon L. mid Examined and found to be correct.
Dec. 15°-06'-14" S
Phase. Last Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex."*, *3^d* Rate, *6* Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	E. S. E.	1		30 18	68	68	64		bc	Cum & nimb.	2	S	
2	,,		"	"	1		30.18	68	67	64		"	Cum strat	6	"	
3	,,		"	"	1		30. 18	68	66	63		"	"	6	"	
4	Ebb		W. N. W.	"	1		30 18	68	66	63		"	"	7	"	
5	,,		"	East	1		30 18	68	66	63		"	"	7	"	
6	,,		"	"	1		30 18	66	65	62		"	"	8	"	
7	,,		"	"	1		30 19	66	65	62		"	cir strat	8	"	
8	,,		"	"	1		30 19	64	64	62		"	"	8	"	
9	,,		"	"	1		30 19	65	65	62		"	Cir cum	7	"	
10	,,		"	"	1		30 21	67	67	64		"	"	8	"	
11	Swinging to	Ebb	"	"	1		30 24	68	67	64		"	"	2	"	
Noon.	,,		E by S.	E. S. E	1		30 24	69	68	65		"	"	3	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *400* gallons.

Water *distilled.* during the preceding 24 hours *900* "

Water remaining on hand fit for use at Noon *1100* "

Coal consumed during the preceding 24 hours *1* tons *460* lbs.

Coal remaining on hand at Noon *121* " *540* "

P. M.																
1	Flood		E by S	S. S. E	1		30 18	69	68	65		bc	circum	2	S	
2	,,		"	"	1		30 14	68	68	65		oc	"	0	"	
3	,,		"	"	1		30 10	70	69	65		bc	"	2	"	
4	,,		"	"	1		30 10	72	70	66		"	"	6	"	
5	Ebb		W by N	"	1		30 10	72	72	67		"	"	6	"	
6	,,		"	E. S. E	1		30 10	72	71	67		"	ci strat	6	"	
7	,,		"	"	1		30 10	72	71	67		"	"	6	"	
8	,,		"	S. S. E	1		30 12	71	71	67		"	"	6	"	
9	,,		"	"	1		30 12	71	71	67		"	circum	6	"	
10	Flood		E by S	N. E	2		30 11	70	69	66		"	"	7	"	
11	,,		"	"	2		30 11	70	68	66		"	"	7	"	
Mid.	,,		"	"	2		30. 11	70	68	66		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Monday January 28th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather generally clear and pleasant. Light airs from Sd and Ed. Barometer steady. Began swinging to Ebb tide at 3:10.- finished at 3:50. Aneroid at end of watch 30.28.

E. P. Rees Lieut

4 to 8 A.M. Clear and pleasant. Light airs from East. Barometer rising slowly. Started fires under No 1. boiler at 4:10. Started distilling at 7.50. Loosed sail to a bowline at 7:30. Aneroid at 8. A.M. 30.30.

W. C. P. Muir WCPM Ensign

8. A.M. to Meridian. Weather clear and pleasant. Light breeze from E.S.E. Barometer rising. Swung to flood tide at 11:30. At 9:30. mustered and inspected crew at quarters. Had battalion drill, and afterwards divisional drill. Distilling water. Aneroid Barometer. 30.31.

Karl Rohrer KR Lieut

Meridian to 4 P.M. Weather clear and pleasant. Light airs from Sd and Ed. Barometer falling. A Summary Court Martial for the trial of Private B. Burns. and such other persons as may be brought before it, convened at 1:00. and adjourned at 2:30. Aneroid at end of watch 30.20

E. P. Rees Lieut

4 to 8 P.M. Weather clear and pleasant. Light breeze from S.S.E to E.S.E. Barometer steady. At 4:30. sent down Royal and Topgallant yards and masts. At 4:45. mustered crew at quarters. Distilling water. Aneroid Barometer 30.21. Swung to Ebb tide at 4.50

Karl Rohrer KR Lieut

8 P.M. to Midnight. Weather clear and pleasant. Light variable winds. Barometer steady. Aneroid at end of watch 30.20.

E. P. Rees Lieut.

Moon L mid Examined and found to be correct.
Dec 12°-02′-13″ S.
Phase Last Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	N. E	1		30 10	69	67	65		bc	cir cum	4	S	
2	"		"	E. N. E	1		30 10	69	67	65		"	"	4	"	
3	"		"	"	1		30 10	68	67	64		"	"	3	"	
4	"		"	"	1		30 10	68	67	64		"	"	4	"	
5	Ebb		W by N.	E. S. E.	1		30 10	67	67	64		"	"	5	"	
6	"		"	"	1		30 10	67	67	64		"	cir cum and cum strat	2	"	
7	"		"	"	1		30 13	67	67	65		"	"	1	"	
8	"		"	"	1		30 16	67	67	65		"	"	1	"	
9	"		"	"	1		30 17	68	68	65		"	cir cum	3	"	
10	"		"	S. S. E	1		30 18	68	68	66		"	"	3	"	
11	"		"	"	1		30 18	68	69	67		"	cum and cir cum	2	"	
Noon	Swinging to Flood		"	"	1		30 17	69	70	67		"	"	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ☉ ° ′ ″

Longitude by Chronometer from Forenoon Observations ☉ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ☉ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 2200 "

Water remaining on hand fit for use at Noon 3000 "

Coal consumed during the preceding 24 hours 1 tons 1960 lbs.

Coal remaining on hand at Noon 119 " 820. "

Hour	Knots	Fathoms	Courses steered	Direction	Force	Leeway	Height in inches	Ther. att'd	Air Dry Bulb	Air Wet Bulb	Water at surface	State of the Weather	Forms of Clouds	Prop. of Clear Sky	State of the Sea	Record of sail
P. M.																
1	Flood		E by S	S. S. E	1		30 16	72	72	69		bc	cir cum	2	S	
2	"		"	"	1		30 12	74	73	69		"	"	3	"	
3	"		"	"	1		30 10	74	73	69		"	"	5	"	
4	"		"	"	1		30 06	74	73	69		"	"	5	"	
5	Ebb		W by N	"	1		30 04	74	73	69		"	"	6	"	
6	"		"	"	1		30 04	73	73	69		"	"	6	"	
7	"		"	"	1		30 03	73	73	69		"	"	6	"	
8	"		"	"	1		30 03	73	73	69		"	"	7	"	
9	"		"	S. E	2		30 06	72	72	68		"	"	6	"	
10	"		"	"	2		30 07	72	71	68		"	"	6	"	
11	Swinging to Flood		E. S. E	E. S. E	2		30 08	70	69	66		"	"	5	"	
Mid.	"		"	"	2		30 09	69	68	66		"	"	5	"	

Longitude by Chronometer from Afternoon Observations ☉ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday. January 29th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 a.m. Cloudy and pleasant. Light airs from N.E. to E.N.E. Slack water at 3:45. Distilling. Aneroid Barometer 30.22.

R.O. Bitler Ensign.

4 to 8 a.m. Weather pleasant. Light breeze from E.S.E. Barometer rising. Swung to Ebb tide at 4:50. Distilling water. Received on board for the crew 90 lbs of fresh beef, 90 lbs vegetables and 72 loaves of bread. Sent up topgallant masts, and crossed topgallant yards. Aneroid Barometer 30.25.

Karl Rohrer, K R Lieut

8 a.m. to Meridian. Weather cloudy and pleasant. Light airs from Sd and Ed. Barometer steady. By order of Comd'g Officer released Thos. Noon (2.c.F.) from confinement, and placed Wm F. Plummer (Lds) in solitary confinement on bread and water for five days, in accordance with previous sentence, for being drunk and disorderly. Mustered at quarters at 9:30. and exercised Gun Divisions at Great Guns, and Powder division at passing powder. At 10.05. called away all boats armed and equipped for distant service, and exercised under sail. Began swinging to flood tide at 11.30. By order of Comdg Officer and in obedience to G.O. 313. of the Navy Dept. dated Washington. Nov 24th 1883. the following changes in ratings are hereby made to take effect. Jan 1st 1884. Viz. T. J. Wynne (Finisher) to 1st cl. Machanist: John Davidson (Finisher) to 1st cl. Machanist. John Kennedy (Boiler Maker) to 2nd cl. Machanist, and James Gillespie (Engr's Bl. Smith) to Blacksmith, and Ah Wing 2 cl. Painter to (Lds) from this date. Aneroid at end of watch 30.22

C.P. Rees Lieut.

Meridian to 4 P.M. Cloudy and pleasant. Light airs from S.S.E. At 1:00. called all hands to muster, and read findings and sentence of Summary Court Martial in case of Bernard Burns (P.M.) and by order of Comd'g Officer confined same in single irons, solitary confinement for 15 days, to have 15 days extra police duty at the expiration of confinement. English Gun boat "Tweed" came in from Hong Kong. Sent officer to board her and offer usual civilities.

R.O. Bitler OB Ensign.

From 4 to 8 P.M. Weather clear and pleasant. Light breeze from Sd and Ed. Barometer steady. Discharged in obedience to G.O. 313. of the Navy Dept. Nov 24th 1883. Henry Cader (S. Blacksmith) and Ah Hop (Cooper). Mustered at quarters at 4:45. Sent down Topgallant yards at 4:50. Enlisted as (O.S.) for cruise of vessel R.W. Allen. Aneroid at end of watch 30.20.

C.P. Rees Lieut.

8 P.M. to Midnight. Fair and pleasant. Light breeze from S.E. to E.S.E. Slack water at 10:05. Finished swinging to flood tide at 10:40. Aneroid Barometer. 30.20.

R.O. Bitler Ensign.

Moon C mid
Dec. $8^\circ 17' 50''$ S
Phase New Moon

Examined and found to be correct.

W.H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3^d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E.S.E	S.E	1		30 10	70	69	67		bc	cir cum and cum	2	S	
2	"		"	"	1		30 09	70	68	66		"	"	2	"	
3	"		"	"	1		30 08	70	68	66		"	"	3	"	
4	"		"	"	1		30 08	70	68	66		"	"	2	"	
5	"		"	"	1		30 10	70	67	65		"	"	1	"	
6	Ebb		W by N	"	1		30 10	70	68	65		"	"	2	"	
7	"		"	"	1		30 10	64	68	65		"	"	3	"	
8	"		"	"	1		30 10	69	68	65		"	"	2	"	
9	"		"	"	2		30 14	69	68	66		"	cum strat and cir	1	"	
10	"		"	"	2		30 16	69	68	66		"	"	3	"	
11	"		"	"	3		30 18	64	69	66		"	"	3	"	
Noon.	"		"	"	3		30 18	69	70	66		"	"	3	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2700. "

Coal consumed during the preceding 24 hours tons 700 lbs.

Coal remaining on hand at Noon 119 " 120 "

P. M.																
1	Flood		E.S.E.	S.E	3		30.12	70	70	66		bc	cum strat and cir cum	3	S	
2	"		"	"	3		30 04	72	71	67		"	"	6	"	
3	"		"	"	3		30 07	73	72	67		"	cum strat and cir	6	"	
4	"		"	"	3		30 07	73	72	67		"	"	5	"	
5	"		"	"	3		30 06	73	72	67		"	"	4	"	
6	Swinging to Ebb		W by N	S.S.E	3		30 05	73	71	68		"	"	5	"	
7	"		"	"	2		30 05	73	71	68		"	"	7	"	
8	"		"	"	2		30 07	73	71	68		"	cir	9	"	
9	"		"	"	2		30 10	71	70	67		"	"	9	"	
10	"		"	"	2		30 12	70	70	67		"	cir cum	8	"	
11	Flood		E by S	"	2		30 11	69	69	66		"	"	5	"	
Mid.	"		"	"	1		30 13	69	68	66		"	"	1	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander. A. H. McCormick, U. S. Navy,
Wednesday. January 30th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light airs from S. E. Flood tide. Aneroid Barometer 30.20

W.M. Irwin w.m.i Lieut

From 4 to 8 A.M. Weather cloudy and pleasant. Light airs from S. E. Barometer steady. Began swinging to Ebb tide at 4:40: finished at 5:30. H.M.S. "Fly" left the harbor for Hong Kong at 6:15. Crossed topgallant and royal yards at 7:30. Aneroid at end of watch 30.24. Got out Steam Cutter.

J.D. Kees Lieut

8 A.M. to Meridian. Cloudy and pleasant. Light to gentle S. E breeze. At 9.30 mustered at quarters. At 9:40 called all hands and exercised at sail drill. Received official visits from Comdg Officer - and officer from English Gunboat "Tweed" Steamer "Hankow" left the harbor. Ah. Walk (Carpr) and Ching Chang (Lds) absent without leave. Aneroid Barometer 30.18.

R.O. Bitler Ensign

Meridian to 4 P.M. Pleasant weather. Gentle breeze from S. E. Barometer falling gradually. Hoisted in Steam Cutter. Riding to flood tide, having finished swinging at 12:20. Aneroid Barometer 30.16.

W.M. Irwin w.m.i Lieut.

4 to 8 P.M. Fair, and pleasant weather. Light to gentle breeze from S.E. to S.S. E. Barometer rising. At 6:00 finished swinging to Ebb tide. At 4:30 sent down light yards. Aneroid Barometer. 30.17.

R.O. Bitler, Ensign.

8 P.M. to Midnight. Cloudy and pleasant. Gentle breeze from S. S. E. Slack water at 10:40, swing to the Flood at 11:10. Aneroid Barometer 30.22.

W.M. Irwin w.m.i Lieut

Moon 6 mid. Examined and found to be correct.
Dec 4°-4'-30" S.
Phase New Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E.S.E.	East	1		3014	68	67	65		oc	cum & nimb	0	S	
2	"		"	"	1		3015	69	67	64		"	"	0	"	
3	"		"	"	1		3015	69	67	64		"	"	0	"	
4	"		"	"	1		3015	69	67	65		"	"	0	"	
5	"		"	N.W.	2		3013	68	67	64		"	"	0	"	
	Swinging to Ebb		"	"	2		3013	65	64	62		"	"	0	"	
7	"		W by N	"	3		3013	63	62	60		bc	"	1	"	
8	"		"	"	3		3015	63	62	60		"	"	1	"	
9	"		"	North	3		3018	64	62	60		ocp	"	0	"	
10	"		"	"	3		3021	64	61	59		oc	"	0	"	
11	"		"	"	3		3024	64	59	57		"	"	0	"	
Noon.	"		"	"	3		3024	64	59	57		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *250* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2450* "

Coal consumed during the preceding 24 hours tons *400* lbs.

Coal remaining on hand at Noon *118* " *1960* "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		W by N	North	3		3023	63	59	57		oc	cum & nimb	0	S	
2	"		E by S	"	3		3020	63	59	57		"	"	0	"	
3	"		"	"	3		3020	63	59	57		"	"	0	"	
4	"		"	"	3		3020	63	59	57		"	"	0	"	
5	"		"	"	3		3020	63	59	56		"	"	0	"	
	Swinging to Ebb		"	"	3		3021	62	59	55		"	"	0	"	
7	"		W by N	"	3		3022	62	58	55		"	"	0	"	
8	"		"	"	2		3024	62	58	55		"	"	0	"	
9	"		"	"	1		3025	63	57	54		"	"	0	"	
10	"		"	"	1		3025	63	57	54		"	"	0	"	
11	"		"	"	2.4		3028	62	56	53		ocq	"	0	"	
Mid.	"		"	"	2.4		3028	61	56	53		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

Commences and until 4 A.M. Clear and pleasant. Light breeze from East. Flood tide during watch. Aneroid 30.24.

Wainwright Kellogg WK Lieut

4 to 8 A.M. Cloudy, overcast first two hours. Light to gentle breeze from N.W. Slack water at 5:30. Finished swinging to Ebb tide at 6:10. English merchant steamer "Fushan" came in and anchored. Hoisted colors at 7:00 to return salute of "Fushan." At 7.30. sent up light yards, and loosed, and furled sail. Ah Walk (Carpr) returned from leave 85 hours overtime.

R. O. Bitler Ensign.

8 A.M. to Meridian. Overcast and cloudy with light passing showers first part. Moderate breeze from North. Inspected at quarters at 9:30. after which exercised at company drill. By order of Comdg Officer 12 hours extra duty was assigned to F. E. Dealing (OS) for swearing aloft. Comdg Officer paid an official visit to H. M. S. "Tweed." Aneroid Barometer. 30.32.

W. M. Irwin
WMI Lieut.

Meridian to 4 P.M. Cloudy. Pleasant. Moderate breeze from North. Slack water at 12:30. and at 1:35 finished swinging to Flood. Aneroid 30.34.

Wainwright Kellogg
WK Lieut

4 to 8 P.M. Overcast and cloudy. Moderate breeze from North. Slack water at 5:20. – swung to the Ebb at 5:50. At 4:30. sent down Topgallant and Royal yards. Mustered at quarters at 4:45. Aneroid Barometer 30.48.

W. M. Irwin
WMI Lieut

8 P.M. to Midnight. Cloudy. Cool. Light to moderate breeze from North. Ebb tide during watch. Aneroid 30.42. Wainwright Kellogg
WK Lieut

Moon
Dec. 0
Phase

Parker
ut and Navigator.

U. S. S. "Essex," 3d rate
Canton, China
31st Jany 1884

Comdr A. H. McCormick.
Commanding.

Sir:

We recommend that Michl Haley (OS) be rated second class fireman. from January 31st 1884.

Very respectfully.

D. P. McCartney Chief Engr U.S.N.
W. H. Parker Lt U.S.N.
F. J. Hoffman, P.A. Engr U.S.N.

under the command of Commander. A. H. McCormick, U. S. Navy,
Thursday. January 31st, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from East. Flood tide during watch. Aneroid 30.24.

Wainwright Kellogg wk Lieut

4 to 8 A.M. Cloudy, overcast first two hours. Light to gentle breeze from N.W. Slack water at 5:30. Finished swinging to Ebb tide at 6:10. English merchant steamer "Fushan" came in and anchored. Hoisted colors at 7:00 to return salute of "Fushan." At 7:30 sent up light yards, and loosed, and furled sail. Ah Walk (Carp.) returned from leave 85 hours overtime.

R. O. Bitler Ensign.

8 A.M. to Meridian. Overcast and cloudy with light passing showers first part. Moderate breeze from North. Inspected at quarters at 9:30 after which exercised at company drill. By order of Comd'g Officer 12 hours extra duty was assigned to F. E. Dealing (O.S.) for swearing aloft. Comd'g Officer paid an official visit to H. M. S. "Tweed." Aneroid Barometer. 30.32.

W. M. Irwin
wmI Lieut.

Meridian to 4 P.M. Cloudy. Pleasant. Moderate breeze from North. Slack water at 12:30 and at 1:35 finished swinging to Flood. Aneroid 30.34.

Wainwright Kellogg
wk Lieut

4 to 8 P.M. Overcast and cloudy. Moderate breeze from North. Slack water at 5:20 - swung to the Ebb at 5:50. At 4:30 sent down Topgallant and Royal yards. Mustered at quarters at 4:45. Aneroid Barometer 30.48.

W. M. Irwin
wmI Lieut

8 P.M. to Midnight. Cloudy. Cool. Light to moderate breeze from North. Ebb tide during watch. Aneroid 30.42. Wainwright Kellogg
wk Lieut

Moon
Dec. 0°24'11" N.
Phase. New Moon

31

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S.	North	3-4		3028	61	56	53		ocq	Cum&Strat	0	S	
2	"		"	"	3-4		3028	60	55	53		"	"	0	"	
3	"		"	"	3-4		3030	59	54	52		"	"	0	"	
4	"		"	"	3-4		3030	59	52	51		"	"	0	"	
5	"		"	"	3-4		3030	58	53	51		"	"	0	"	
6	"		"	"	2-4		3032	58	53	51		ocqd	"	0	"	
7	Ebb		W by N	N.N.W.	2		3033	58	53	51		ocd	"	0	"	
8	"		"	"	2		3035	56	52	50		"	"	0	"	
9	"		"	North	2		3035	58	52	51		ocr	"	0	"	
10	"		"	"	2		3036	63	53	52		ocd	"	0	"	
11	"		"	"	2		3038	65	54	52		"	"	0	"	
Noon.	"		"	"	2		3037	65	54	52		oc	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2150. "

Coal consumed during the preceding 24 hours tons 1700 lbs.

Coal remaining on hand at Noon 118 " 260 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	N.N.W.	2		3035	66	55	52		oc	Cum&Strat	0	S	
2	Flood		E by S	"	2-3		3035	67	54	52		"	"	0	"	
3	"		"	"	2-4		3030	67	55	52		ocq	"	0	"	
4	"		"	"	2-4		3030	67	55	52		"	"	0	"	
5	"		"	North	3		3030	67	56	53		oc	"	0	"	
6	"		"	"	3		3030	68	56	52		"	"	0	"	
7	Ebb		W by N	"	3		3030	68	56	52		"	"	0	"	
8	"		"	"	3		3033	70	56	52		"	"	0	"	
9	"		"	W.N.W.	2		3034	71	58	54		"	"	0	"	
10	"		"	"	2-4		3036	69	57	53		ocq	"	0	"	
11	"		"	"	2-4		3036	65	57	53		"	"	0	"	
Mid.	"		"	"	2-4		3036	64	56	52		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick. , U. S. Navy,

Friday. February 1st , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and threatening. Moderate winds from North, squally at intervals. Rising Barometer. Aneroid at 4 P.M. 30.42. Slack water at 12:10. Finished swinging to Flood at 12:30.

W.C.P. Muir Ensign

4 to 8 A.M. Overcast and cloudy. with light drizzling rain and occasional squalls first part. Slack water at 6:00. — swung to the Ebb at 6:45. Started one fire for heating ship. At 7:30. crossed Topgallant yards. Aneroid Barometer. 30.50.

W.M. Irwin
wmJ Lieut

8 A.M. to Meridian. Cloudy. Drizzling rain first three hours of watch, - clearing last hour. At 9:30. mustered at quarters, and instructed all divisions at ~~quarters~~ ordnance. Ebb tide during watch. Moderate breeze from North. Aneroid 30.48.

Wainwright Kellogg
WK Lieut

Meridian to 4 P.M. Cloudy, cool and squally. Moderate N.N.W. winds Falling Barometer. Slack water at 12:45. Finished swinging to flood at 1:30. Paymaster L. A. Yorke returned from leave. Aneroid at 4 P.M. 30.42.

W.C.P. Muir Ensign.

4 to 8 P.M. Cloudy. Cool. Moderate breeze with occasional puffs from North. At 4:45. mustered at quarters. Slack water at 6:20. and at 7:15. finished swinging to Ebb. Aneroid 30.45.

Wainwright Kellogg WK Lieut.

8 P.M. to Midnight. Cloudy. Cool and squally. Moderate N.N.W. winds Barometer rising. Aneroid at end of watch 30.46. Ship riding to Ebb tide.

W.C.P. Muir Ensign.

Moon L mid Examined and found to be correct.
Dec. 4° 54' - 07" N.
Phase. New Moon

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S.	N.N.W.	2		3033	63	55	52		oc	cum and cir cum	0	S	
2	"		"	"	2.4		3033	61	55	52		ocq	"	0	"	
3	"		"	"	2.4		3031	60	52	50		ocqp	"	0	"	
4	"		"	"	2.4		3031	60	52	50		ocq	cum & nim	0	"	
5	"		"	North	3		3029	59	54	51		oc	"	0	"	
6	"		"	"	3		3028	59	54	51		"	"	0	"	
7	Ebb		W by N	"	3		3030	58	54	51		ocd	"	0	"	
8	"		"	"	3		3034	54	54	51		"	cir cum and strat	0	"	
9	"		"	"	2		3037	60	54	51		bcd	"	0	"	
10	"		"	N.E.	2		3037	64	54	52		"	"	3	"	
11	"		"	N.N.W.	2		3037	66	55	53		bc	"	2	"	
Noon.	"		"	"	2		3035	67	56	53		"	"	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1800 "

Coal consumed during the preceding 24 hours tons 1900 lbs.

Coal remaining on hand at Noon 117 " 600 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	N.N.W.	2		3030	67	57	54		bc	cir cum and cum	2	S	
2 Swinging to Flood			E by S	"	2		3026	67	57	54		"	"	1	"	
3	"		"	North	3		3022	67	57	54		"	"	1	"	
4	"		"	"	3		3020	67	57	54		"	"	1	"	
5	"		"	"	3		3020	65	55	52		oc	"	0	"	
6	"		"	"	3		3020	62	54	52		"	"	0	"	
7	"		"	"	3		3020	62	53	51		"	"	0	"	
8	"		"	"	3		3020	66	53	51		"	"	0	"	
9	Ebb		W by N	"	2		3023	67	54	51		"	cum & nim	0	"	
10	"		"	"	2		3023	66	54	51		ocp	"	0	"	
11	"		"	"	1		3021	64	56	53		"	"	0	"	
Mid.	"		"	"	1		3021	64	57	54		ocd	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick. , U. S. Navy,
Saturday. February 2nd , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cold and threatening. Passing shower of rain in latter part of watch. Breeze light to moderate in squalls from N.N.W. Barometer falling. Fires banked under one boiler. Swung to flood tide at 1.00. Anerοid Barometer 30.43.

Karl Rohrer KR Lieut.

4 to 8 A.M. Cloudy. Cool. Drizzling rain last two hours of watch. Slack water at 6:45.- and at 7.15 finished swinging to Ebb. Aneroid 30.48.

Wainwright Kellogg WK Lieut

8 A.M. to Meridian. Overcast and cloudy. Clearing latter part of watch. Light winds shifting from North to N.E. and then to N.W. Steady Barometer. Ship riding to Ebb during watch. Aneroid at noon 30.45. Fires banked under one boiler for heating purposes.

W.C.P. Muir WCPM Ensign.

Meridian to 4 P.M. Weather somewhat cloudy but not unpleasant. Light to gentle breeze from North to N.N.W. Barometer falling. Cumulus and ciro cumulus clouds. Swung to Flood tide at 2:00. Fires under one boiler for heating purposes. Aneroid Barometer 30.33.

Karl Rohrer KR Lieut.

4 to 8 P.M. Overcast and cloudy with gentle breeze from North. Steady Barometer. Received in Pay Department for issue to crew, 142. lbs of Beef and Vegetables, and 113. loaves Bread. Went to quarters for muster at 4:45. Slack water at 7.30. Finished swinging to Ebb at 8:00. Aneroid at end of watch 30.32.

W.C.P. Muir WCPM Ensign.

8 P.M. to Midnight. Weather cloudy and damp. Light breeze from North. Barometer steady. Riding to Ebb tide. Fires banked under one boiler. Aneroid Barometer 30.31.

Karl Rohrer KR Lieut.

Moon L mid Examined and found to be correct.
Dec 9°09'-55" N.
Phase. New Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,
Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N	North	1		30 17	63	58	55		ocd	cum & nimb	0	S	
2	Flood		E by S	"	1		30 13	63	58	55		"	"	0	"	
3	"		"	"	2		30 10	62	56	54		"	"	0	"	
4	"		"	"	2		30 07	62	56	54		ocr	"	0	"	
5	"		"	"	2		30 04	60	55	52		"	"	0	"	
6	"		"	"	2		30 04	59	54	52		"	"	0	"	
7	"		"	"	2		30 03	59	54	52		"	"	0	"	
8	"		"	"	2		30 03	59	54	52		ocd	"	0	"	
9	Ebb		W by N	"	2		30 06	64	54	52		"	"	0	"	
10	"		"	"	3.4		30 09	65	52	51		ocrq	"	0	"	
11	"		"	N.N.W.	3.4		30 12	67	52	51		"	"	0	"	
Noon.	"		"	"	3.4		30 10	68	52	51		ocq	"	0	"	

Distance run by Log since preceding Noon knots fathoms.
Latitude by D. R. at Noon ° ' "
Longitude by D. R. at Noon ° ' "
Latitude by Observations at Noon ⊙ ° ' "
Longitude by Chronometer from Forenoon Observations ⊙ ° ' "
Current during the time knots fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "
Variation of the Compass by Azimuth ⊙ observed at ° ' "
Water expended during the preceding 24 hours 250 gallons.
Water during the preceding 24 hours "
Water remaining on hand fit for use at Noon 1550 "
Coal consumed during the preceding 24 hours tons 1750 lbs.
Coal remaining on hand at Noon 116 " 1140 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	Ebb		W by N	N.N.W.	2.4		30 08	68	52	50		ocdq	cum & nimb	0	S	
2	"		"	"	3.5		30 08	67	50	49		ocrq	"	0	"	
3	Swinging to Flood		E by S	"	3.5		30 05	66	50	49		"	"	0	"	
4	"		"	"	2.4		30 05	66	50	49		"	"	0	"	
5	"		"	"	3		30 06	67	51	50		ocr	"	0	"	
6	"		"	"	2		30 06	68	52	50		"	"	0	"	
	Swinging to Ebb		W by N	"	2		30 08	67	52	50		"	"	0	"	
8	"		"	"	2.4		30 08	67	52	50		ocqr	"	0	"	
9	"		"	"	3.5		30 12	62	49	48		ocq	cirro-cum & nimb	0	"	
10	"		"	"	2.4		30 16	61	48	47		bcq	cirro cum and cum	6	"	
11	"		"	"	2.4		30 18	60	47	45		"	"	6	"	
Mid.	"		"	"	2.4		30 18	60	46	45		"	"	6	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "
Longitude by Chronometer from Observations * ° ' "
Variation of the Compass by Amplitude observed at sunset ° ' "
Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday February 3rd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and rainy. Light breeze from Nd. Barometer falling. Aneroid at end of watch 30.20.

C.P. Rees Lieut.

4 to 8 A.M. Overcast and rainy. Light winds from Nd. Barometer falling slowly. Aneroid at end of watch 30.20. Slack water at 7:30.

Ensign.

8 A.M. to Meridian. Weather overcast and rainy. Breeze light to moderate in squalls from North, to N.N.W. Barometer rising. Ebb tide running. The French Gunboat "Lutin" come in and anchored. Sent an Officer on board to offer the customary civilities. By order of Captain released W. F. Plummer (Lds) from confinement, and placed W. C. Callip (O.S.) in solitary confinement on bread and water for five days. Fires under one boiler for heating purposes. Aneroid Barometer 30.25.

Karl Rohrer Lieut.

Meridian to 4 P.M. Overcast and rainy with wind blowing in fresh puffs from N.N.W. Began swinging to flood tide at 2:00; - finished at 3:00. Barometer falling. Aneroid at end of watch 30.20.

C.P. Rees Lieut

4 to 8 P.M. Weather overcast and rainy. Breeze light to gentle from N.N.W. Barometer rising. High water at 7.00. Swung to ebb tide at 7:30. Fires under one boiler. Aneroid Barometer. 30.27.

Karl Rohrer, Lieut.

8 P.M. to Midnight. Weather overcast and rainy at beginning of watch - afterwards clearing with wind blowing in fresh squalls from N.N.W. Barometer rising. Aneroid at end of watch 30.32.

C.P. Rees Lieut

Moon l mid
Dec 12°-55'-14 N.
Phase. New Moon.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N	N. N. W.	3.5		3020	56	45	43		bcq	cir cum and cum	7	S	
2	"	"	"	"	2.4		3020	55	45	43		"	"	8	"	
3	"	"	"	"	2.4		3020	54	44	42		"	"	7	"	
4	Swinging to Flood		E by S	"	2.4		3020	53	44	41		"	"	7	"	
5	"	"	"	"	2.4		3020	53	44	42		"	"	7	"	
6	"	"	"	"	3		3022	53	44	42		"	"	7	"	
7	"	"	"	"	3		3024	55	42	40		bc	"	7	"	
8	Swinging to Ebb		N. W.	"	3		3026	55	42	40		"	"	8	"	
9	"	"	N. W. by W.	"	3		3028	55	42	39		"	"	8	"	
10	"	"	"	"	3		3028	55	44	41		"	"	8	"	
11	"	"	"	"	3		3028	61	45	42		"	"	8	"	
Noon.	"	"	"	"	2.4		3027	61	47	43		bcq	"	5	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1300 "

Coal consumed during the preceding 24 hours tons 1900 lbs.

Coal remaining on hand at Noon 115 " 1480 "

P. M.																
1	Ebb		W by N	North	2.4		3022	61	48	44		bcq	Cir cum	6	S	
2	"	"	"	"	2.4		3021	62	47	43		"	"	6	"	
3	Swinging to Flood		"	"	2.4		3019	65	49	45		"	"	6	"	
4	"	"	E by S	"	2.4		3019	66	50	45		"	"	6	"	
5	"	"	"	N. N. E	3		3019	64	49	45		bc	Cir	8	"	
6	"	"	"	"	3		3019	64	48	43		"	"	8	"	
7	"	"	"	"	2.4		3019	64	46	43		bcq	"	8	"	
8	"	"	"	"	2.4		3019	64	45	41		"	"	8	"	
9	"	"	"	"	2		3022	68	44	41		bc	"	9	"	
10	Ebb		W. N. W.	N. N. W.	3		3024	70	44	41		"	"	9	"	
11	"	"	"	"	3		3024	65	43	40		"	"	9	"	
Mid.	"	"	"	"	2		3022	60	43	40		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Monday February 4th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool, squally from N.N.W. light to stiff in force. Slack water at 3:15. Finished swinging to flood at 3:45. Aneroid Barometer 30.37.

R.O. Bitler Ensign.

4 to 8 A.M. Weather clear and cold. Breeze light to moderate in squalls from N.N.W. Barometer rising. Fires under one boiler. Swung to Ebb at 7.30. Crossed Royal yards and loosed sail. Louis E. Distel (Sea) reported on board having been sent from the U.S. Naval Hospital in Yokohama Japan. Aneroid Barometer 30.44.

Lieut

8 A.M. to Meridian. Weather clear and cool. Moderate breeze from N.N.W. Barometer steady. Mustered at quarters at 9:30. Exercised at battalion drill at 9.40. Exercised 1st and 3rd Divisions, and Marine Guard at small arms, and 2nd and Masters Divisions at single sticks at 10:00. The Comdg Officer of the French man-of-war "Lutin" visited the ship officially at 10:00; and the Comdg Officer of H.B.M.S. "Tweed" called on the Officers at 10:30. Aneroid at end of watch 30:40.

Lieut

Meridian to 4 P.M. Clear and cool. Light to gentle breeze in squalls from North. At 1.00 furled sail,- and went to quarters and served out clean hammocks. Steamer "Kiu Kiang" came in. Slack water at 1:45. Finished swinging to flood at 3.50. Aneroid Barometer 30.31.

R.O. Bitler, Ensign.

4 to 8 P.M. Weather clear and cool. Moderate breeze from N.N.E. growing squally last hour of watch. Barometer steady. Sent down topgallant and royal yards and topgallant masts at 4:30. Mustered at quarters at 4:45. Received for ships company 143 lbs fresh beef and vegetables, and 114 loaves bread. Aneroid 30.36.

Lieut

8 P.M. to Midnight. Clear and cold. Light to gentle breeze from N.N.E. to N.N.W. Merchant Steamer came in. Slack water at 8:45. Finished swinging to Ebb at 9:40. Aneroid Barometer 30.38.

R.O. Bitler, Ensign.

Moon l mid Examined and found to be correct.
Dec 15° 56' 42" N
Phase First Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3^{d} Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N	North	1		3023	57	43	40		bc	cir strat	8	S	
2	"		"	"	1		3023	56	43	40		"	"	7	"	
3	"		"	"	2		3021	55	42	40		"	cir cum and cum strat	5	"	
4	"		"	"	2		3019	54	42	40		"	"	6	"	
5	Swinging to Flood		E by S	"	2		3019	54	43	40		"	"	6	"	
6	"		"	"	2		3019	52	43	39		"	"	4	"	
7	"		"	"	1		3020	57	43	41		"	"	2	"	
8	"		"	"	1		3021	57	43	41		"	"	2	"	
9	"		"	N. E.	2		3023	63	45	42		"	"	2	"	
10	Swinging to Ebb		W by N	"	2		3023	63	45	42		"	"	1	"	
11	"		"	"	2		3023	65	47	44		"	"	1	"	
Noon.	"		"	"	2		3020	66	47	44		"	"	1	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1000 "

Coal consumed during the preceding 24 hours tons 1800 lbs.

Coal remaining on hand at Noon 114 " 1920 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	Ebb		W by N.	N. E	2		30 13	65	48	45		bc	cum and cir cum	2	S	
2	"		"	N. N. W.	2		30 10	65	48	44		ocd	"	0	"	
3	"		"	"	2		30 08	66	48	45		"	"	0	"	
4	Flood		E by S	"	2		30 08	66	48	45		"	"	0	"	
5	"		"	"	2		30 10	67	49	46		ocr	cum strat and nimb	0	"	
6	"		"	"	2		30 08	67	49	46		"	"	0	"	
7	"		"	"	2		30 08	63	49	46		oc	"	0	"	
8	"		"	"	2		30 10	67	49	46		"	"	0	"	
9	"		"	North	2.4		30 09	68	48	46		ocq	cir cum cum & nimb	0	"	
10	Swinging to Ebb		N. W.	"	2.4		30 09	68	47	46		ocdq	"	0	"	
11	"		W by N	"	2.4		30 11	67	47	45		"	"	0	"	
Mid.	"		"	"	2.4		30 12	65	47	45		ocq	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday February 5th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Light Northerly breeze. Slack water at 3:35. Aneroid Barometer 30.36.

W.M. Irwin Lieut

From 4 to 8 A.M. Weather cloudy and cool. Gentle breeze from Nd. Barometer steady. Sent up topgallant masts and topgallant yards at 7:30. Finished swinging tide at 4:30. Aneroid at end of watch 30.37.

Lieut.

8 A.M. to Meridian. Cloudy and cool. Light breeze from N.E. At 9:30 mustered at quarters and had divisional drill. At 10:15 called away all boats armed and equipped. Comdg Officer left ship to pay official visit to French Gunboat "Lutin". Chinese Gunboat left the harbor. Slack water at 9:20. Finished swinging to Ebb at 10:00. Aneroid Barometer 30.34

R.O. Bitler Ensign

Meridian to 4 P.M. Overcast and cloudy with light drizzling rain latter part. Gentle breeze from N.E. hauling to N.N.W. Received on board in Paymasters Department 4 Bbls. Beef, 5 bbls Pork, 9 bbls Flour, 4 bbls. Beans, 9 bx's Pickles, 8 bx's Candles, 3 bx's Butter: also in Equipment Dept. 1 Foresail. Slack water at 2:55. – finished swinging to the Flood at 3:45. Aneroid Barometer 30.24.

W.M. Irwin Lieut

4 to 8 P.M. Overcast and cloudy with light drizzling rain during watch. Light breeze from N.N.W. Chinese Gunboat came in and anchored. H.M.S. "Fly" came in and anchored. Sent officer to board her and offer usual civilities. Aneroid Barometer 30.20.

R.O. Bitler Ensign

8 P.M. to Midnight. Overcast cloudy and cool. Moderate breeze from North with frequent squalls. Slack water at 9:40. – swung to the Ebb at 10:50. Aneroid Barometer 30.30.

W.M. Irwin Lieut.

Moon l mid Examined and found to be correct.
Dec 18°-00'-38" N.
Phase. First Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N	N. N. W.	2.4		3010	60	45	44		ocgr	cum and cir cum	0	S	
2	"		"	"	2.4		3008	58	45	44		"	"	0	"	
3	"		"	"	2.4		3007	57	46	44		"	"	0	"	
4	"		"	"	2.4		3007	57	46	44		"	"	0	"	
5	"		"	"	2.4		3009	55	45	44		ogr	Nimb	0	"	
6	Flood		"	"	2.4		3010	54	44	43		"	"	0	"	
7	"		E by S	North	2.4		3014	54	44	43		ocgr	cum and nimb	0	"	
8	"		"	"	2.4		3017	55	44	43		"	"	0	"	
9	"		"	"	2.4		3020	59	44	43		"	"	0	"	
10	"		"	"	2.4		3024	62	44	43		"	"	0	"	
11	Swinging to Ebb		W by N	"	2.4		3024	64	45	44		"	cirrostrat and nimb	0	"	
Noon.	"		"	"	2.4		3023	65	45	44		"	"	0	"	

Distance run by Log since preceding Noon	knots	fathoms.	
Latitude by D. R. at Noon	°	′	″
Longitude by D. R. at Noon	°	′	″
Latitude by Observations at Noon ⊙	°	′	″
Longitude by Chronometer from Forenoon Observations ⊙	°	′	″
Current during the time knots fms. per hour, setting to the			
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	′	″
Variation of the Compass by Azimuth ⊙ observed at	°	′	″
Water expended during the preceding 24 hours	250	gallons.	
Water during the preceding 24 hours		"	
Water remaining on hand fit for use at Noon	750	"	
Coal consumed during the preceding 24 hours	tons	1800	lbs.
Coal remaining on hand at Noon	114 "	120	"

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	North	2.4		3021	67	46	45		ocg	circum and cum	0	S	
2	"		"	"	2.4		3019	67	46	44		"	"	0	"	
3	"		"	"	2.4		3017	67	46	45		bcg	"	1	"	
4	"		"	"	2.4		3016	67	47	45		"	"	1	"	
5	"		"	"	2.4		3018	67	46	44		"	"	1	"	
6	Flood		E by S	"	2.4		3020	67	46	43		"	"	2	"	
7	"		"	"	2.4		3023	69	46	43		"	"	3	"	
8	"		"	"	2.4		3028	69	46	43		"	"	4	"	
9	"		"	"	2.4		3030	66	45	42		"	"	3	"	
10	"		"	"	2.4		3032	66	45	43		"	"	2	"	
11	"		"	"	2.4		3033	64	46	43		"	cir and circum	4	"	
Mid.	Swinging to Ebb		W by N	"	2.4		3033	60	45	42		bc	cir	8	"	

Longitude by Chronometer from Afternoon Observations ⊙	°	′	″
Longitude by Chronometer from Observations *	°	′	″
Variation of the Compass by Amplitude observed at sunset	°	′	″
Variation of the Compass by at	°	′	″

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday February 6th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Disagreeable. Rainy greater part of watch. Light breeze with occasional puffs of wind from N.N.W. Ebb tide during watch. Aneroid 30.28.

Wainwright Kellogg Wk Lieut

4 to 8 A.M. Overcast, rainy and squally. Light to moderate wind from N.N.W. to North. Slack water at 5:45. Finished swinging to flood at 7:15. "Hankow" got underway and steamed up to wharf. Aneroid Barometer 30.33.

R.O. Bitler, Ensign.

8 A.M. to Meridian. Overcast, cloudy and squally with frequent showers. Moderate to fresh breeze from North. Slack water at 10:15, swung to the Ebb at 10:55. Dispensed with quarters on account of the weather. Received official visits from the Comd'g officers of H.B.M.S. "Fly" and H.I.M.S. Wolf. Aneroid 30.37.

W.M. Irwin wmI Lieut

Meridian to 4 P.M. Cloudy. Cool. Clearing. Light to moderate breeze from North. Swinging to Ebb during watch. Aneroid 30.32.

Wainwright Kellogg Wk Lieut

4 to 8 P.M. Cloudy and cool. Moderate breeze from North with occasional squalls. Slack water at 4:20. - finished swinging to the Flood at 5:35. Mustered at quarters at 4:45. Aneroid Barometer 30.43.

W.M. Irwin wmI Lieut.

8 P.M. to Midnight. Cloudy. Cool. Moderate breeze with occasional puffs from North. Moonlight. Slack water at 11:00. and at 11:30. finished swinging to Ebb. Aneroid 30.45. Wainwright Kellogg

Wk Lieut.

Moon l mid Examined and found to be correct.
Dec. 18°-57'-49" N.
Phase. First Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N	North	2.4		3034	60	45	42		bcq	Cir Cum	7	S	
2	„		„	„	2.5		3032	58	45	41		„	„	8	„	
3	„		„	„	2.4		3032	56	45	41		„	Cir	8	„	
4	„		„	„	2.4		3030	55	43	41		„	„	8	„	
5	„		„	„	2		3030	54	43	40		bc	„	9	„	
6	„		„	„	1		3030	53	42	40		„	„	9	„	
7	„		„	„	1		3032	49	42	39		„	Cir Cum	7	„	
8	„		„	„	2		3032	52	42	39		„	„	7	„	
9	Flood		„	„	3		3038	62	44	40		„	Cir	9	„	
10	„		E.N.E	„	3.5		3040	62	46	41		bcq	„	9	„	
11	„		„	„	3.5		3040	62	48	42		„	„	9	„	
Noon.	„		„	„	3.5		3039	62	49	42		„	„	9	„	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours “

Water remaining on hand fit for use at Noon 500 “

Coal consumed during the preceding 24 hours tons 1800 lbs.

Coal remaining on hand at Noon 113 “ 560 “

P. M.																
1	Flood		N.N.W.	North	3.5		3037	63	49	42		bcq	Cir cum	8	S	
2	Ebb		W.N.W	„	3.5		3035	64	50	43		„	„	8	„	
3	„		„	„	3.5		3033	65	52	45		„	„	8	„	
4	„		„	„	2.4		3033	67	53	45		„	Cir-strat	9	„	
5	Swinging to Flood		„	„	2.4		3033	67	53	45		„	Cir	9	„	
6	„		E.N.E	„	2		3033	69	53	45		bc	„	9	„	
7	„		„	„	2		3033	69	51	46		„	„	9	„	
8	„		„	„	1		3035	69	50	46		„	„	9	„	
9	„		E by S	„	1		3040	67	49	44		„	„	9	„	
10	„		„	„	1		3042	63	49	44		„	„	9	„	
11	„		„	„	1		3043	60	47	42		„	Cirro Cum	8	„	
Mid.	„		„	„	1		3043	58	46	41		„	„	8	„	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Thurs-day February 7th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light winds with frequent moderate squalls from North. Falling Barometer. Ship riding to Ebb tide. Aneroid at 4 A.M. 30.48.

W. C. P. Muir Ensign.

4 to 8 A.M. Clear and pleasant. Gentle breeze from North. Ebb tide. At 7:30. crossed Topgallant and Royal yards and loosed sail to a bowline. At 6:00 H. I. M. S. "Wolf" got underway and left the harbor. Aneroid Barometer. 30.49.

W. M. Simms Lieut.

8 A.M. to Meridian. Clear and cool. Fresh breeze with occasional strong squalls from North. At 9:30. mustered at quarters. Exercised all divisions at company drill. Slack water at 8:00. and at 10.15. finished swinging to Flood. At 11:00. furled sail. Aneroid 30.50.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Clear and pleasant. Moderate to fresh in wind in squalls from North. Falling Barometer. Slack water at 12:30. Finished swinging to Ebb at 1:00. Comdg Officer paid official visit on board H. M. S. "Fly." Aneroid at end of watch 30.44.

W. C. P. Muir Ensign.

4 to 8 P.M. Clear and pleasant. Light breeze from North. At 4:45. mustered at quarters. At 4:30. sent down Topgallant and Royal yards. Slack water at 4:50. and at 5:40. finished swinging to Flood. Aneroid 30.52.

Wainwright Kellogg Lieut.

8 P.M. to Midnight. Clear and cool. Light airs from North. Barometer rising slowly. Slack water at 11:55. Aneroid at end of watch 30.52. Ship riding to flood.

W. C. P. Muir Ensign.

Moon l mid
Dec 18° 44' 09" N.
Phase First Quarter

Examined and found to be correct.

W. H. Parker
Lieut. and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,
Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Swinging to Ebb			W.N.W.	North	1		3043	57	45	40		bc	cir	8	S	
2	〃		〃	〃	1		3043	56	44	40		〃	〃	9	〃	
3	〃		〃	〃	1		3043	55	43	39		〃	〃	9	〃	
4	〃		〃	〃	1		3041	54	42	38		〃	〃	9	〃	
5	〃		〃	〃	1		3040	55	41	39		〃	〃	9	〃	
6	〃		〃	〃	1		3038	55	41	39		〃	〃	9	〃	
7	〃		〃	〃	1		3038	54	41	39		〃	Cir Cum	8	〃	
8	〃		〃	〃	1		3040	58	42	39		〃	〃	8	〃	
9	Flood		〃	〃	1		3050	60	43	39		〃	〃	8	〃	
10	〃		〃	〃	2		3050	64	47	40		〃	〃	8	〃	
11	〃		E by S	〃	2		3050	65	49	42		〃	〃	9	〃	
Noon.	〃		〃	〃	2		3050	65	51	44		〃	〃	6	〃	

Distance run by Log since preceding Noon knots fathoms.
Latitude by D. R. at Noon ° ′ ″
Longitude by D. R. at Noon ° ′ ″
Latitude by Observations at Noon ⊙ ° ′ ″
Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″
Current during the time knots fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″
Variation of the Compass by Azimuth ⊙ observed at ° ′ ″
Water expended during the preceding 24 hours 300 gallons.
Water distilled during the preceding 24 hours 750 "
Water remaining on hand fit for use at Noon 950 "
Coal consumed during the preceding 24 hours 1 tons 1760 lbs.
Coal remaining on hand at Noon 111 " 1040 "

P. M.															S	
1	Flood		E by S	N.N.W.	2		3046	66	53	45		bc	Cir Cum	6	〃	
2	Swinging to Ebb		〃	〃	2		3043	68	53	45		〃	〃	7	〃	
3	〃		W by N	North	2		3040	69	55	46		〃	〃	8	〃	
4	〃		〃	〃	2		3040	70	55	46		〃	cir cum and cum-strat	4	〃	
5	〃		〃	〃	2		3040	70	54	46		〃	〃	3	〃	
6	〃		〃	〃	2		3040	69	53	46		〃	〃	3	〃	
7	〃		〃	〃	2		3040	64	53	46		〃	〃	2	〃	
8	Flood		E by S	〃	2		3040	64	53	46		〃	〃	2	〃	
9	〃		〃	N.N.E	2		3040	64	52	45		〃	〃	6	〃	
10	〃		〃	〃	1		3040	63	50	44		〃	Cir Cum	8	〃	
11	〃		〃	N by E	1		3040	59	49	43		〃	〃	7	〃	
Mid.	〃		〃	〃	1		3040	59	49	43		〃	〃	4	〃	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″
Longitude by Chronometer from Observations * ° ′ ″
Variation of the Compass by Amplitude observed at sunset ° ′ ″
Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Friday. February 8th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and cool. Light breeze from North. Barometer falling slowly. Swung to Ebb tide at 1:00. Fires under one boiler. Aneroid Barometer 30.54.

Karl Rohrer KR Lieut.

4 to 8 A.M. Clear and cool. Light breeze from North. Ebb tide during watch. At 7:30 crossed Topgallant yards. Aneroid 30.60.

Wainwright Kellogg WK Lieut.

8 A.M. to Meridian. Clear, bright, and pleasant. Light to gentle winds from North. Barometer steady. Slack water at 8:50 - finished swinging at 10:15. At 9:30 cleared ship for action, after which beat to general quarters. At 9:50 had fire quarters, after which secured ship. Aneroid at noon 30.60.

W. C. P. Muir WCPM Ensign.

Meridian to 4 P.M. Weather clear and cool. Light breeze from North. Swung to Ebb tide at 2:30. Distilling water. Aneroid Barometer 30.48.

Karl Rohrer, Lieut.

4 to 8 P.M. Generally cloudy. Light winds from North. Barometer steady. Slack water at 6.30. Swung to flood at 7:30. Received in Pay Dept. for issue to crew, 142 lbs beef and vegetables, 114 loaves bread. S. Walton (S. Cook; L. F. Schuman (Cox); J. P. King (Armr.) and John Davidson (l.d.M.) returned from leave. Aneroid at end of watch 30.53. Distilling.

W. C. P. Muir Ensign.

8 P.M. to Midnight. Weather clear and pleasant. Light airs from N. N. E. to N by E. Barometer steady. Distilling water. Riding to flood tide. Aneroid Barometer 30.55.

Karl Rohrer, KR Lieut.

Moon l mid Examined and found to be correct.
Dec 17°-21'-40" N.
Phase. First Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3^d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A. M.																
1	Flood		E by S	North	1		3042	58	48	43		bc	ci	9	S	
2	Swinging to Ebb		"	"	1		3042	57	47	43		"	"	9	"	
3	"		W by N	"	1		3042	57	47	43		"	"	9	"	
4	"		"	"	1		3040	56	46	42		"	Cir Cum	7	"	
5	"		"	"	1		3040	54	45	42		"	"	7	"	
6	"		"	"	1		3040	54	45	42		"	"	6	"	
7	"		"	"	2		3042	53	46	42		"	"	3	"	
8	"		"	"	1		3044	56	46	42		"	"	5	"	
9	"		"	"	1		3046	62	48	43		"	"	3	"	
10	Swinging to Flood		"	"	1		3048	65	49	44		"	"	3	"	
11	"		E by S	"	1		3049	66	51	46		"	"	4	"	
Noon.	"		"	"	1		3049	67	53	48		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 2250 "

Water remaining on hand fit for use at Noon 2900 "

Coal consumed during the preceding 24 hours 1 tons 1960 lbs.

Coal remaining on hand at Noon 109 " 1320 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface	State of the Weather	Forms of Clouds	Prop. of Clear Sky	State of the Sea	Record of the sail
P. M.																
1	Flood		E by S	W by S	1		3043	68	56	50		bc	circum	5	S	
2	"		"	N.E	1		3038	67	56	47		"	"	3	"	
3	Swinging to Ebb		"	"	1		3037	69	56	47		"	"	3	"	
4	"		W by N	S. E. by S	1		3037	69	57	49		"	"	4	"	
5	"		"	Calm	0		3037	70	57	50		"	cirro cum & cum-strat	3	"	
6	"		"	"	0		3037	70	57	50		"	"	3	"	
7	"		"	"	0		3037	69	56	50		"	"	3	"	
8	"		"	"	0		3037	64	57	51		"	"	3	"	
9	Swinging to Flood		"	"	0		3037	66	57	51		ocm	"	0	"	
10	"		E by S.	"	0		3037	66	56	53		"	"	0	"	
11	"		"	"	0		3037	66	56	53		bcm	cir cum & cum	2	"	
Mid.	"		"	E.S.E	1		3037	64	56	53		"		2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday. February 9th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and cool. Light airs from Nd. Barometer steady. Began swinging to Ebb tide at 1:30. - finished at 2:20. Anervid at end of watch 30.53. Finished distilling at 2.30.

C. P. Rees Lieut.

4 to 8 A.M. Fair and cool. Light winds from North. Rising Barometer. Ship riding to Ebb. Chas. Carter (C.T.) Jas Gillespie (Blacksmith) Chas Broad, (C.A.G) and Albert Ipson (Sea) left ship on leave of absence. Aneroid at end of watch 30.58.

W. C. P. Muir Ensign.

8 A.M. to Meridian. Weather clear and pleasant. Light breeze from North. Barometer steady. Low water at 9:30. Swung to flood tide at 11.00. Fires banked under one boiler. At 9:30. mustered and inspected crew at quarters. Aneroid Barometer 30.55.

Karl Rohrer Lieut.

From Meridian to 4 P.M. Weather cloudy and pleasant. Light variable winds. Barometer falling. Aneroid at end of watch 30.45. Begun swinging to Ebb tide at 2:40.; finished at 3:30.

C. P. Rees Lieut

4 to 8 P.M. Weather clear and pleasant. Calm. Barometer steady. Fires banked under one boiler. Riding to Ebb tide. At 4.45. mustered at quarters, and turned in clean hammocks. Aneroid Barometer 30.47.

Karl Rohrer, Lieut

8 P.M. to Midnight. Weather cloudy and cool. Calm. Barometer steady. Finished swinging to flood tide at 8:30. Aneroid at end of watch 30.47.

C. P. Rees Lieut.

Moon ℓ mid
Dec. 14°-08'-36" N.
Phase. First Quarter.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex". 3d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S	E.S.E	1		3037	62	55	50		bc	cum and cir cum	2	S	
2	"		"	"	1		3036	62	54	49		"	"	1	"	
3	"		"	East	1		3033	61	53	49		"	"	1	"	
4	Ebb		W by N	"	1		3032	60	54	49		oc	"	0	"	
5	"		"	N.E	2		3032	58	54	51		"	cir cum and nimb	0	"	
6	"		"	"	2		3032	58	54	51		"	"	0	"	
7	"		"	"	2		3037	58	54	51		"	"	0	"	
8	"		"	"	1		3039	56	55	51		"	"	0	"	
9	"		"	E by N	1		3042	65	55	51		ocd	"	0	"	
10	"		"	"	1		3043	66	56	51		"	"	0	"	
11	Flood		E by S	N.E	1		3043	68	56	51		oc	"	0	"	
Noon.	"		"	"	1		3043	68	56	51		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ☉ ° ' "

Longitude by Chronometer from Forenoon Observations ☉ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ☉ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2600 "

Coal consumed during the preceding 24 hours ~~tons~~ 1700 lbs.

Coal remaining on hand at Noon 108 " 1860 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	North	2		3040	70	56	51		oc	cir cum and cum	0	S	
2	"		"	"	2		3038	70	56	51		"	"	0	"	
3	"		"	"	2		3036	70	55	51		ocd	"	0	"	
4	Ebb		W by N	"	2		3034	71	55	52		ocr	"	0	"	
5	"		"	"	2		3032	67	53	57		"	"	0	"	
6	"		"	"	1		3032	67	53	51		ocp	"	0	"	
7	"		"	"	1		3032	67	53	51		"	"	0	"	
8	"		"	"	1		3034	67	53	50		"	"	0	"	
9	"		"	"	1		3036	65	53	50		ocd	cum & nimb	0	"	
10	Flood		E by S	"	2		3036	63	53	50		"	"	0	"	
11	"		"	"	2		3036	62	53	50		"	"	0	"	
Mid.	"		"	"	2		3036	61	52	50		ocr	"	0	"	

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday, February 10th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool, overcast last hour. Light airs from E.S.E. Slack water at 3:00;- finished swinging to Ebb at 3:30. Aneroid Barometer. 30.45.

R.O. Bitler Ensign.

4 to 8 A.M. Weather cloudy but not unpleasant. Light breeze from N.E. Barometer rising. Cirro cumulus and nimbus clouds. Riding to Ebb tide. Fires banked under one boiler. Aneroid Barometer 30.52.

Karl Rohrer Lieut.

8 A.M. to Meridian. Weather cloudy with occasional light drizzling rain. Barometer steady. Called all hands to muster at 9:30. and read Articles for the better Government of the Navy and recent Court Martial orders of this Station. Aneroid at end of watch 30:51. Began swinging to flood tide at 10:10;- finished at 11:00.

C. P. Rees Lieut

Meridian to 4 P.M. Overcast and cloudy with drizzling rain last two hours. Slack water at 3:00. Finished swinging to Ebb at 3:45. Aneroid Barometer 30.45.

R.O. Bitler Ensign.

From 4 to 8. P.M. Weather overcast and rainy. Light airs from Nd. Barometer steady. Began swinging to Ebb tide at 3.00: finished at 3:45. Aneroid at end of watch 30.47.

C. P. Rees Lieut.

8 P.M. to Midnight. Rainy and disagreeable. Light winds from Nd. Steady Barometer. Slack water at 8:30. Finished swinging to flood at 9:15. Aneroid at end of watch 30.49.

W.C.P. Muir. Ensign.

Moon l mid Examined and found to be correct.
Dec 11°-48'-07" N
Phase. First Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton, China.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S	North	1		3037	61	53	51		ocr	Nimb	0	S	
2	"		"	"	1		3036	61	53	51		"	"	0	"	
3	"		"	"	2		3035	61	52	50		"	"	0	"	
4	Swinging to Ebb		"	"	2		3035	61	52	50		ocd	"	0	"	
5	"		W by N	"	2		3033	60	50	48		"	"	0	"	
6	"		"	"	1		3033	66	50	49		"	"	0	"	
7	"		N.W. by W.	N.W.	1		3036	69	50	49		"	"	0	"	
8	"		"	"	1		3036	69	50	49		"	"	0	"	
9	"		"	"	1		3038	69	52	51		or	"	0	"	
10	"		"	"	1		3040	63	52	51		ocd	Cum & nimb	0	"	
11	"		"	"	1		3038	63	52	51		"	"	0	"	
Noon	Swinging to Flood		West	"	1		3036	63	52	51		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2300* "

Coal consumed during the preceding 24 hours tons *1800* lbs.

Coal remaining on hand at Noon *108* " *60* "

P. M.																
1	Flood		E by S	N.N.E	2		3034	60	52	50		ocd	Cum & nimb	0	S	
2	"		"	"	2		3030	59	51	50		ocr	"	0	"	
3	"		"	"	2		3030	58	50	49		"	"	0	"	
4	"		"	"	2		3030	59	51	49		"	"	0	"	
5	Ebb		W by N	"	2		3030	59	51	49		"	"	0	"	
6	"		"	"	2		3029	61	52	51		"	"	0	"	
7	"		"	"	1		3028	61	52	51		"	"	0	"	
8	"		"	"	1		3029	61	52	51		"	"	0	"	
9	"		"	N.N.W.	1		3030	59	51	50		or	Nimb	0	"	
10	Swinging to Flood		"	"	1		3032	60	52	51		"	"	0	"	
11	"		E by S	"	1		3032	57	52	51		"	"	0	"	
Mid.	"		"	"	1		3032	57	52	51		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Monday February 11th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast cloudy and rainy. Gentle breeze from North. Flood tide. Aneroid Barometer 30.48. Slack water at 3:20.

W.M. Lieut.

From 4 to 8 A.M. Weather overcast with drizzling rain. Light airs from Nd to Nd and Wd. Barometer steady. Finished swinging to Ebb tide at 4:15. Aneroid at end of watch 30.49.

J.Kee Lieut.

8 A.M. to Meridian. Overcast, cloudy, and rainy, with light airs from N.W. At 9:30. mustered at quarters. Slack water at 10:55. Finished swinging to flood at 11:58. Steamer "Hankow" left the harbor. Aneroid Barometer 30.48.

R.O. Bitler Ensign

Meridian to 4 P.M. Rainy, disagreeable weather. Gentle breeze from N.N.E. Flood tide. Falling Barometer. Aneroid Barometer 30.44. Slack water at 3:50.

W.M. Lieut.

4 to 8 P.M. Overcast, cloudy and rainy. Light airs, and light breeze from N.N.E. Received on board in Pay Dept. 143 lbs. Fresh Beef, and vegetables and 114 loaves bread. Finished swinging to Ebb at 4:30. Aneroid Bar. 30.42.

R.O. Bitler Ensign.

8 P.M. to Midnight. Overcast and cloudy, raining greater part of watch. Light airs from N.N.W. Slack water at 9:30., - swung to the Flood at 10:00. Aneroid Barometer 30.46.

W.M. Lieut.

Moon l mid Examined and found to be correct.
Dec 8°-04'-08" N.
Phase Full Moon

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3^d* Rate, *6* Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	North	1		3025	57	51	50		ocr	Nimb	0	S	
2	"		"	"	1		3025	57	51	50		"	"	0	"	
3	"		"	"	1		3022	57	51	50		"	"	0	"	
4	"		"	"	1		3020	57	50	49		"	"	0	"	
5	Ebb		W by N	"	1		3020	57	50	49		"	"	0	"	
6	"		"	"	1		3019	57	50	49		"	"	0	"	
7	"		"	"	1		3019	57	50	49		"	"	0	"	
8	"		"	"	1		3019	56	50	49		"	"	0	"	
9	"		"	N.N.W	1		3025	56	49	49		"	"	0	"	
10	"		"	"	1		3026	65	49	49		"	"	0	"	
11	"		"	"	1		3026	65	49	49		"	"	0	"	
Noon.	"		"	"	1		3024	67	49	49		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2050 "

Coal consumed during the preceding 24 hours tons 1900 lbs.

Coal remaining on hand at Noon 107 " 400 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	N.N.W.	3		3023	66	52	51		or	Nimb	0	S	
2	"		"	"	3		3020	67	52	51		"	"	0	"	
3	"		"	"	3		3018	67	52	51		"	"	0	"	
4	"		"	"	3		3016	68	52	51		"	"	0	"	
5	Ebb		W by N	"	3		3015	69	51	50		"	"	0	"	
6	"		"	"	2		3016	68	50	49		"	"	0	"	
7	"		"	"	2		3016	68	50	49		"	"	0	"	
8	"		"	"	3		3018	69	50	49		"	"	0	"	
9	"		"	"	3		3020	70	50	48		"	"	0	"	
10	"		"	"	2		3020	71	50	48		"	"	0	"	
11	"		"	"	2		3023	70	51	50		"	"	0	"	
Mid.	Flood		E by S	"	2		3020	70	52	50		ocp	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday. February 12th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Heavy rain during entire watch. Disagreeable weather. Riding to flood. Light breeze from North. Aneroid 30.37.
Wainwright Kellogg Lieut.

4 to 8 A.M. Overcast and heavy rain during entire watch. Light Northerly airs. Slack water at 4:30;- finished swinging to Ebb at 5.00 Aneroid 30.37.
R. O. Bitler Ensign.

8 A.M. to Meridian. Overcast and cloudy with continuous rain. Gentle breeze from N.N.W. Dispensed with quarters on account of the weather. Aneroid Barometer 30.40. Slack water at 11:40.
W. M. Irwin Lieut.

Meridian to 4 P.M. Overcast. Heavy rain during entire watch. Moderate breeze from N.N.W. Finished swinging to flood at 12:20. Received in Pay Dept. 27. bags of bread. Aneroid 30.28.
Wainwright Kellogg Lieut

4 to 8 P.M. Overcast and rainy. Light breeze from N.N.W. Slack water at 4:10. Swung to the Ebb at 4:50. Aneroid Barometer 30.35.
W. M. Irwin Lieut.

8 P.M. to Midnight. Overcast. Heavy rain during entire watch. Light breeze from N.N.W. Slack water at 10:15;- and at 10:56. finished swinging to flood. Aneroid 30.36.
Wainwright Kellogg Lieut

Moon l mid
Dec. 4°-01'-53" N.
Phase. Full Moon.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	N.N.W.	2		3020	63	53	51		or	Nimb	0	S	
2	"		"	"	2		3020	62	53	51		"	"	0	"	
3	"		"	"	2		3020	61	53	51		"	"	0	"	
4	"		"	"	2		3016	60	52	50		oc	cum & nimb	0	"	
Swinging to Ebb			"	"	2		3016	60	50	49		"	"	0	"	
6	"		W by N.	"	2		3015	58	49	48		"	"	0	"	
7	"		"	"	2		3017	57	49	48		ocd	"	0	"	
8	"		"	"	2		3020	57	50	48		bcd	cir cum cum & strat	2	"	
9	"		"	"	1		3020	61	51	50		"	cir cum and cum	3	"	
10	"		"	"	2		3020	65	52	50		bc	Cir Cum	5	"	
11	"		"	"	2		3020	65	52	50		"	"	6	"	
Noon.	"		"	"	2		3020	65	52	50		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *250* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1800* "

Coal consumed during the preceding 24 hours tons *1700* lbs.

Coal remaining on hand at Noon *106* " *940* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of the sail.
P. M.																
1	Flood		E by S	N.N.W.	2		3020	67	55	52		bc	cir cum	6	S	
2	"		"	N.N.E	2		3018	67	56	54		"	"	6	"	
3	"		"	"	2		3018	68	58	55		"	"	5	"	
4	"		"	N.N.W.	2		3018	70	59	55		"	"	5	"	
Swinging to Ebb			E.N.E	"	2		3018	71	60	55		"	cir cum cum & strat	5	"	
6	"		W by N	"	1		3018	71	59	56		"	"	5	"	
7	"		"	North	1		3020	69	59	56		"	cum & strat	4	"	
8	"		"	"	1		3020	69	59	56		"	"	4	"	
9	"		"	N by E	1		3020	68	57	54		"	cir cum	8	"	
10	"		"	"	1		3021	65	57	54		"	"	8	"	
11	"		"	"	1		3022	65	56	54		"	"	8	"	
Mid.	"		"	"	2		3022	65	56	54		"	Cir	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday February 13th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and rainy. Falling Thermometer;- and steady Barometer. Light N.N.W. winds. Aneroid at 4 A.M. 30.29. Riding to flood.

W. P. Muir C.P.M. Ensign.

4 to 8 A.M. Overcast and cloudy with light drizzling rain at intervals. Gentle breeze from N.N.W. Slack water at 4:30; swung to the Ebb at 5:00. Aneroid Barometer 30.38.

W. M. [illegible] wms Lieut.

8 A.M. to Meridian. Overcast. Drizzling rain until 10:00 when the weather cleared. Pleasant remainder of watch. Light breeze from N.N.W. At 9:30 mustered at quarters. At 10.00 loosed sail to a bowline and crossed Royal yards. Ebb tide during watch. Aneroid 30.36.

Wainwright Kellogg WK Lieut.

Meridian to 4 P.M. Clear and pleasant. Light N.N.W. winds hauling to N.N.E., and then back to N.N.W. latter part of watch. Barometer falling slowly. At 2:30 shortened, and furled sail. Slack water at 12:15. Finished swinging to flood at 1:00. Aneroid at end of watch 30.30.

W. P. Muir C.P.M. Ensign.

4 to 8 P.M. Clear and pleasant. Light breeze from N.N.W. to North. At 4:30 sent down Topgallant and Royal yards;- and at 4:45 mustered at quarters. Slack water at 4:25;- and at 5.25 finished swinging to Ebb Aneroid 30.33.

Wainwright Kellogg WK Lieut.

8 P.M. to Midnight. Clear, bright and pleasant. Light airs from N by E. Barometer rising slowly. Slack water at 11:00. Finished swinging to flood at 12:00. Aneroid at end of watch 30.36. Fires under one boiler to heat ship.

W. P. Muir P.M. Ensign.

Moon ℓ mid Examined and found to be correct.
Dec 0°-05'-49 S.
Phase Full Moon.

W. H. Parker
Lieut. and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1.	Flood		Ely S.	North	2		3020	62	52	51		bc	cum and cir cum	4	S	
2	"		"	"	2		3019	60	52	50		"	"	5	"	
3	"		"	"	2		3017	60	52	50		"	"	5	"	
4	"		"	"	1		3017	60	52	50		"	Cir	9	"	
5	Swinging to Ebb		E.N.E	"	1		3017	58	52	50		"	Strat & cirro-cum	9	"	
6	"		W by N	"	0-1		3019	59	53	51		"	"	7	"	
7	"		"	"	0-1		3021	58	53	51		bcz	Cir & cum	6	"	
8	"		"	"	0-1		3021	57	53	51		"	"	6	"	
9	"		"	Calm	0		3025	63	54	52		bc	"	3	"	
10	"		"	W.N.W.	1		3028	66	56	53		"	"	2	"	
11	"		"	"	1		3028	68	57	54		"	"	2	"	
Noon.	"		"	"	1		3028	68	60	56		"	"	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1500 "

Coal consumed during the preceding 24 hours tons 1900 lbs.

Coal remaining on hand at Noon 105 " 1280 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Swinging to Flood		West	Calm	0		3026	73	61	57		bc	Cir Cum	2	S	
2	"		Ely S	"	0		3024	73	61	57		"	"	2	"	
3	"		"	"	0		3024	70	62	59		"	"	2	"	
4	"		"	"	0		3022	68	62	59		"	"	2	"	
5	"		"	"	0		3020	65	62	58		oc	"	0	"	
6	Ebb		W by N	S. E	1		3015	65	62	59		"	"	0	"	
7	"		"	"	1		3015	65	62	60		"	"	0	"	
8	"		"	"	1		3016	66	63	60		"	"	0	"	
9	"		"	"	1		3017	66	64	61		"	"	0	"	
10	"		"	"	1		3019	65	63	60		"	"	0	"	
11	"		"	South	1		3019	64	62	59		"	"	0	"	
Mid.	"		"	"	1		3019	64	62	59		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday, February 14th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light breeze from North. Barometer falling slowly. Cumulus, cirro cumulus and cirrus clouds. Fires banked under one boiler. Riding to flood tide. Aneroid Barometer 30.34.

Karl Rohrer, Lieut.

4 to 8 A.M. Hazy. Pleasant. Light airs from North and calms. Slack water at 4:50; and at 5:25 finished swinging to Ebb. At 7.30 crossed Top-gallant, and Royal yards. Aneroid 30.38.

Wainwright Kellogg Lieut.

8 A.M. to Meridian. Bright and pleasant with light W.N.W. airs. Barometer rising first half; steady latter half of watch. At 9:30 went to quarters after which drilled as per routine. Lost by capsizing of Catamaran 3 lbs black paint, 2 lbs brown paint, ½ lb white paint, 3 paint brushes; and 2 scrapers. Furled sail at 9:25. Ship riding to Ebb tide. Aneroid at end of watch 30.38.

W. C. P. Muir Ensign.

Meridian to 4 P.M. Weather pleasant. Calm. Barometer falling slowly. Swung to flood tide at 1:00. Fires banked under one boiler. Aneroid Barometer 30.28.

Karl Rohrer Lieut.

4 to 8 P.M. Clear and pleasant. Calm to light W.N.W. airs. Barometer steady. Went to quarters for muster at 6:45. Sent down Royal and Top-gallant yards at 4:30. Slack water at 5:00. Finished swinging to Ebb at 6.0
Aneroid at end of watch 30.31.

W. C. P. Muir Ensign.

8 P.M. to Midnight. Weather cloudy but pleasant. Light breeze from S. E. to South. Barometer rising slowly. Riding to Ebb tide. Fires banked under one boiler. Aneroid Barometer 30.31.

Karl Rohrer, Lieut.

Noon & mid
Dec 4°-07'-45" S
Phase. Full Moon.

Examined and found to be correct.

W. H. Parker
Lieut. and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*. *3d* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	Calm	0		30 18	65	62	60		oc	Cir cum and cum	0	S	
2	"		"	S. E	1		30 18	65	62	60		"	"	0	"	
3	"		"	"	1		30 17	65	62	60		"	"	0	"	
4	"		"	"	1		30 17	65	62	60		ocd	"	0	"	
5	"		"	"	1		30 15	63	60	59		"	"	0	"	
6	"		"	"	1		30 15	64	60	59		ocp	Nimb	0	"	
7	Ebb		W by N	"	1		30 16	65	60	59		"	"	0	"	
8	"		"	E by S	1		30 19	64	60	59		"	"	0	"	
9	"		"	E. N. E	1		30 20	66	61	59		oc	Cum Nimb	0	"	
10	"		"	"	1		30 20	65	62	60		"	"	0	"	
11	"		"	East	1		30 20	65	62	60		bc	"	3	"	
Noon.	"		"	"	1		30 20	65	62	60		oc	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1200* "

Coal consumed during the preceding 24 hours ~~tons~~ *1800* lbs.

Coal remaining on hand at Noon *104* " *1720* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	Ebb		W by N	East	1		30 18	64	62	60		ocd	Cum Nimb	0	S	
2	Flood		E by S	"	1		30 14	64	61	59		"	"	0	"	
3	"		"	"	1		30 11	64	61	60		oc	Cum-strat	0	"	
4	"		"	"	1		30 11	64	62	60		"	"	0	"	
5	"		"	"	1		30 11	65	63	60		"	Cir cum Cum Nimb	0	"	
6	Swinging to Ebb		"	"	1		30 11	65	63	60		"	"	0	"	
7	"		W by N.	"	1		30 11	65	63	60		ocd	"	0	"	
8	"		"	"	1		30 11	70	63	60		oc	"	0	"	
9	"		"	Calm	0		30 15	71	63	61		"	Cum Nimb	0	"	
10	"		"	"	0		30 18	69	63	61		"	"	0	"	
11	"		"	"	0		30 18	67	63	61		"	"	0	"	
Mid.	"		"	"	0		30 18	66	63	61		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Friday February 15th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy, with drizzling rain last hour of watch. Light variable airs and calms. Barometer falling. Aneroid at end of watch 30.29. Finished swinging to flood tide at 12:30.

C. P. Rees Lieut.

4 to 8 A.M. Overcast, cloudy with passing showers during watch. Light airs from S. E. to E by S. Chinese Gunboat left the harbor. Slack water at 5:40. Finished swinging to Ebb at 6:15. Aneroid Barometer 30.30.

R. O. Bitler Ensign

8 A.M. to Meridian. Weather somewhat cloudy, but not unpleasant. Light breeze from E. N. E. to East. Barometer steady. Cumulus and nimbus clouds. Fires banked under one boiler. At 9:30 went to fire quarters. Crossed topgallant yards. Aneroid Barometer 30.31.

Karl Rohrer Lieut.

From Meridian to 4 P.M. Weather overcast. Light drizzling rain first part of watch. Barometer falling. Began swinging to flood tide at 12:50. Finished at 1:30. Aneroid at end of watch 30.24.

C. P. Rees Lieut.

4 to 8 P.M. Weather, overcast and cloudy. Drizzling rain in latter part of watch. Light breeze from East. Fires banked under one boiler. Swung to Ebb tide at 6:20. At 4:45 mustered crew at quarters. Aneroid Barometer 30.28.

Karl Rohrer Lieut.

8 P.M. to Midnight. Weather overcast. Calm. Barometer rising. Riding to Ebb tide. Aneroid at end of watch 30.27.

C. P. Rees Lieut

Moon l mid
Dec. 7°-53'-54" S.
Phase Full Moon.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W by N.	N. N. E	1		3017	65	63	61		oc	Cum thin	0	S	
2	Flood		E by S	"	1		3015	65	63	61		"	"	0	"	
3	"		"	North	1		3015	65	62	61		ocd	"	0	"	
4	"		"	"	1		3013	65	62	61		"	"	0	"	
5	"		"	"	1		3013	65	62	61		"	"	0	"	
Swinging to Ebb			W by N	"	1		3015	65	63	61		"	"	0	"	
7	"		"	Calm	0		3016	65	63	61		"	"	0	"	
8	"		"	"	0		3016	65	63	61		ocm	"	0	"	
9	"		"	"	0		3016	67	63	61		"	"	0	"	
10	"		"	"	0		3019	69	63	61		"	"	0	"	
11	"		"	"	0		3019	69	63	61		"	"	0	"	
Noon.	"		"	"	0		3019	69	64	62		"	"	0	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ⊙	° ′ ″	
Longitude by Chronometer from Forenoon Observations ⊙	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ⊙ observed at	° ′ ″	
Water expended during the preceding 24 hours	300	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	900	"
Coal consumed during the preceding 24 hours	tons 1900	lbs.
Coal remaining on hand at Noon	103 " 2060	"

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N.	Calm	0		3016	67	63	62		ocr	Cum thin	0	S	
2	Flood		E by S	"	0		3013	67	63	62		"	"	0	"	
3	"		"	N. N. W.	1		3010	66	63	62		"	"	0	"	
4	"		"	"	1		3009	66	63	62		"	"	0	"	
5	"		"	"	1		3009	65	63	62		"	"	0	"	
6	"		"	"	1		3009	65	64	63		"	"	0	"	
7	Ebb		W by N	Calm	0		3010	65	64	63		"	"	0	"	
8	"		"	N. N. W.	1		3012	66	63	62		ocd	"	0	"	
9	"		"	"	1		3012	66	63	62		"	"	0	"	
10	"		"	"	1		3014	66	62	61		"	"	0	"	
11	"		"	Calm	0		3014	66	62	61		"	"	0	"	
Mid.	"		"	"	0		3014	66	62	61		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙	° ′ ″
Longitude by Chronometer from Observations *	° ′ ″
Variation of the Compass by Amplitude observed at sunset	° ′ ″
Variation of the Compass by at	° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday. February 16th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy with drizzling rain last two hours of watch. Light airs from N.N.E. and North. Slack water at 12:40. Finished swinging to flood at 1:15. Aneroid Barometer 30.26.

R. O. Bitler Ensign.

4 to 8 A.M. Overcast and cloudy. Drizzling rain. Light breeze from North, in early part of watch;- and Calm in latter part. Swung to Ebb tide at 6:00. Fires banked under one boiler. Aneroid Barometer 30.29.

Karl Rohrer, Lieut.

8 A.M. to Meridian. Weather overcast and misty. Calm. Barometer falling. Mustered at quarters at 9:30. and made out clothing requisitions. By order of Comd'g Officer gave Franklin Morris (Lds) 2 days solitary confinement on bread and water for fighting, and Ah Moon (Lds) 2 nights in double irons for fighting. Aneroid at end of watch 30.30.

C.P. Rees Lieut

Meridian to 4 P.M. Overcast cloudy and rainy. Calm and light N.N.W. airs. Macao Steamer "Hankow" and "Lee. Seng" came in. Received on board 100. galls Tea oil; 32 Lights of glass; 168 lbs white lead; 2 cans copal varnish;- and 4 lbs vermilion. Slack water at 1:10;- finished swinging to flood at 2:00. While hoisting in the Oil one of the tubs, containing about 33 galls. was lost overboard.

R. O. Bitler, Ensign.

From 4 to 8 P.M. Weather overcast and rainy. Light airs from N.N.W. Barometer steady. Began swinging to Ebb tide at 6:00,- and finished at 6:50. Aneroid at end of watch 30.26.

C.P. Rees Lieut.

8 P.M. to Midnight. Overcast, with drizzling rain during entire watch. Light N.N.W. airs and calms. By order of Comd'g Officer Confined Ah Moon (Lds) in double irons for the night. Aneroid at end of watch 30.29.

R. O. Bitler, Ensign.

Moon l mid Examined and found to be correct.
Dec. 11°-17'-06" S.
Phase. Full Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3^d Rate, 6 Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W by N	Calm	0		30 16	66	63	62		ocd	Cum&Nimb.	0	S	
2	Swinging to Flood		"	S. S. E.	1		30 15	65	63	62		"	"	0	"	
3	"		E by S	"	1		30 15	65	63	62		"	"	0	"	
4	"		"	"	1		30 12	64	62	61		"	"	0	"	
5	"		"	East	1		30 11	64	62	61		oc	"	0	"	
6	"		"	"	1		30 12	64	62	61		"	"	0	"	
7	Swinging to Ebb		W by N	E. S. E	1		30 14	64	62	61		"	"	0	"	
8	"		"	"	1		30 16	69	62	61		"	"	0	"	
9	"		"	"	1		30 20	71	64	62		"	"	0	"	
10	"		"	"	1		30 20	68	64	62		"	"	0	"	
11	"		"	"	1		30 20	68	64	62		"	"	0	"	
Noon.	"		"	"	1		30 20	68	64	62		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 600 "

Coal consumed during the preceding 24 hours tons 1800 lbs.

Coal remaining on hand at Noon 103 " 260 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	E. S. E	1		30 17	66	63	61		ocd	Cum&Nimb.	0	S	
2	"		"	"	1		30 14	67	63	61		"	"	0	"	
3	Flood		E by S	S. by E	1		30 14	67	63	61		"	"	0	"	
4	"		"	"	1		30 14	67	63	61		"	"	0	"	
5	"		"	E. S. E	0-1		30 17	65	62	61		"	Nimb & Cum-strat	0	"	
6	"		"	"	0-1		30 18	66	63	62		"	"	0	"	
7	"		"	"	0-1		30 18	66	65	63		"	Cum&Nimb.	0	"	
8	Ebb		W by N	"	0-1		30 18	66	65	63		"	"	0	"	
9	"		"	S. E	1		30 19	68	66	65		bc	"	3	"	
10	"		"	"	1		30 19	68	66	65		oc	"	0	"	
11	"		"	"	1		30 22	67	65	64		"	"	0	"	
Mid.	"		"	"	1		30 22	67	65	64		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday. February 17th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy with light drizzling rain. Calm first hour, light airs from S.S.E. remainder of watch. Slack water at 1:20; swung to the Flood at 2:10. Aneroid Barometer 30.20.

w.m.i.
W.M.Irwin Lieut.

From 4 to 8 A.M. Weather overcast and damp. Light airs from Ed. to Sd. and Ed. Barometer rising. Aneroid at end of watch 30.29. Began swinging to Ebb tide at 6:15 - and finished at 6:45. Received mail from the United States.

C.P.Rees Lieut.

8 A.M. to Meridian. Overcast and cloudy with light E.S.E. airs. At 9.30 mustered at quarters. Aneroid Barometer 30.32.

R.O.Bitler Ensign.

Meridian to 4 P.M. Overcast and cloudy. Light airs from E.S.E. to S by E. Slack water at 1:10, finished swinging to the Flood at 2:15. Aneroid Barometer 30.28.

W.M.Irwin
w.m.i.
Lieut.

4 to 8 P.M. Overcast, cloudy with drizzling rain. Light E.S.E. airs, and calms. Chinese merchant steamer came in. At 4:35 went to quarters and served out clean hammocks. Aneroid Barometer 30.30.

R.O.Bitler, Ensign.

8 P.M. to Midnight. Overcast and cloudy. Light airs from S.E. Ebb tide. Aneroid Barometer 30.33.

W.M.Irwin
w.m.i.
Lieut.

Moon L mid Examined and found to be correct.
Dec 14°09'58" S.
Phase. Full Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,
Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N.	S. E.	1		3022	65	64	62		ocd	Cum&Strat	0	S	
2	"		"	"	1		3021	65	64	62		oc	"	0	"	
3	Flood		E by S	E by S	1		3020	65	64	62		"	"	0	"	
4	"		"	"	1		3019	65	63	61		"	"	0	"	
5	"		"	E. S. E	1		3019	65	63	61		"	"	0	"	
6	"		"	"	1		3020	65	63	61		"	"	0	"	
7	"		"	"	1		3024	65	63	61		"	"	0	"	
8	Ebb		W by N	"	1		3028	63	63	61		"	"	0	"	
9	"		"	"	1		3028	64	63	62		"	"	0	"	
10	"		"	"	1		3030	65	64	62		"	"	0	"	
11	"		"	"	1		3030	66	65	63		"	"	0	"	
Noon.	"		"	"	1		3030	65	65	63		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 400 "

Water remaining on hand fit for use at Noon 700 "

Coal consumed during the preceding 24 hours 1 tons 960 lbs.

Coal remaining on hand at Noon 101 " 1540 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	Ebb		W by N	E. S. E	1		3030	65	65	63		oc	Cir Cum	0	S	
2	"		"	"	1		30.30	65	65	63		"	"	0	"	
3	Flood		E by S	"	1		3038	65	65	63		"	"	0	"	
4	"		"	"	1		3025	65	65	64		"	"	0	"	
5	"		"	"	1		3025	65	65	64		"	"	0	"	
6	"		"	"	1		3020	67	67	65		"	"	0	"	
7	"		"	"	1		3020	67	67	65		ocd	"	0	"	
8	"		"	"	1		3020	67	67	65		"	"	0	"	
9	Ebb		W by N	"	1		3022	67	66	64		"	"	0	"	
10	"		"	"	2		3022	67	66	64		"	"	0	"	
11	"		"	"	2		3022	67	66	64		"	"	0	"	
Mid.	"		"	"	2		3023	67	66	63		ocr	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Monday February 18th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Drizzling rain first hour of watch. Light airs from Sd and Ed. Slack water at 2:00; and at 3:00. finished swinging to flood. Aneroid 30.32. Wainwright Kellogg W.K. Lieut.

4 to 8 A.M. Overcast and cloudy, with light E.S.E. airs. Slack water at 6:50. and finished swinging to Ebb at 7:30. At 7:30 crossed royal yards. By order of Comdg Officer Ah Moon. (Lds) was released from double irons. Aneroid Barometer 30.38. Started fires under number 2 boiler for distilling.

Ro. Bitter, Ensign.

8 A.M. to Meridian. Cloudy, light airs from E.S.E. Barometer steady. At 9:00 loosed sail to a bowline. At 9:15. commenced distilling. Mustered at quarters at 9:30. and exercised the Battalion: after which exercised 1st and Powder Divisions and Marine Guard at small arms, the 2nd and 3rd Divisions with single sticks. Aneroid Bar. 30.40.

W.M. Irwin W.M.I. Lieut

Meridian to 4 P.M. Cloudy. Pleasant. Light airs from E.S.E. Slack water at 1:45. finished swinging to flood at 2:30. Distilling. Aneroid 30:30. By order of Comdg Officer Wm Plummer (Lds) was discharged from this ship and from the Naval Service. Wainwright Kellogg W.K. Lieut.

4 to 8 P.M. Cloudy and overcast, drizzling rain latter part. Light airs from E.S.E. At 4:30. sent down Topgallant and Royal yards, and Topgallant masts. Mustered at quarters at 4:45. Slack water at 6:56, swung to the Ebb at 7:55. Aneroid Barometer 30.32. Distilling.

W.M. Irwin W.M.I. Lieut

8 P.M. to Midnight. Cloudy. Light drizzling rain. Light breeze from E.S.E. Ebb tide during watch. Distilling. Aneroid 30.34.

Wainwright Kellogg W.K. Lieut.

Moon l mid Examined and found to be correct.
Dec. 16°-26'-45" S
Phase. Full Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3^d Rate, 6 Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W by N.	E. S. E	1		3023	67	67	65		oc	cir cum & cum	0	S	
2	"		"	"	1		3022	67	66	64		"	"	0	"	
3	"		"	"	1		3022	67	66	64		"	"	0	"	
4	Swinging to Flood		E by S	"	1		3021	67	66	64		"	"	0	"	
5	"		"	"	1		3019	66	65	63		ocd	"	0	"	
6	"		"	"	1		3019	66	65	63		"	"	0	"	
7	"		"	"	1		3020	70	64	63		ocr	"	0	"	
8	"		"	"	1		3024	70	64	63		ocd	"	0	"	
9	Ebb		W by N	E by S	1		3028	71	64	63		ocr	Cum & Nimb	0	"	
10	"		"	"	1		3028	70	64	63		"	"	0	"	
11	"		"	"	1		3028	68	64	63		"	"	0	"	
Noon.	"		"	"	1		3026	68	64	63		"	"	0	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ' "	
Longitude by D. R. at Noon	° ' "	
Latitude by Observations at Noon ☉	° ' "	
Longitude by Chronometer from Forenoon Observations ☉	° ' "	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	° ' "	
Variation of the Compass by Azimuth ☉ observed at	° ' "	
Water expended during the preceding 24 hours	400	gallons.
Water distilled during the preceding 24 hours	2800	"
Water remaining on hand fit for use at Noon	3100	"
Coal consumed during the preceding 24 hours	2 tons 320	lbs.
Coal remaining on hand at Noon	99 " 1220	"

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	E by S	2		3022	67	65	63		ocr	Cum & Nimb	0	S	
2	"		"	"	2		3019	67	65	63		"	"	0	"	
3	Flood		E by S	"	2		3016	67	65	63		"	"	0	"	
4	"		"	"	2		3016	68	65	63		"	"	0	"	
5	"		"	N. N. E	2		3016	70	64	63		"	"	0	"	
6	"		"	"	2		3018	74	65	64		"	"	0	"	
7	"		"	"	1		3018	69	65	64		"	"	0	"	
8	"		"	"	1		3019	69	65	64		"	"	0	"	
9	Ebb		W by N	Calm	0		3020	69	65	64		"	"	0	"	
10	"		"	"	0		3022	69	65	63		"	"	0	"	
11	"		"	North	1		3023	68	64	62		"	"	0	"	
Mid.	"		"	"	1		3023	67	63	61		ocvtl.	"	0	"	

Longitude by Chronometer from Afternoon Observations ☉	° ' "
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday February 19th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Light E.S.E. airs. Barometer falling slowly. Slack water at 3:10; finished swinging to Flood at 4:00. Aneroid at end of watch 30.32.

W.C.P. Muir Ensign.

4 to 8 A.M. Overcast and cloudy with occasional showers. Light airs from E.S.E. Slack water at 7:55. At 7:40 sent up Topgallant masts. Stopped distilling and banked fires. Aneroid Barometer 30.35.

W.M. Irwin Lieut.

8 A.M. to Meridian. Overcast. Steady rain during watch except last hour. Light airs from E by S. Finished swinging to Ebb at 8.35. Aneroid 30.36.

Wainwright Kellogg Lieut.

Meridian to 4 P.M. Rainy and overcast. Light winds from E by S. Barometer falling. Slack water at 2:00. Finished swinging to Flood at 2:45. Transferred fires from under Boilers Nos 2 and 4. to furnaces under No 1. Boiler. Aneroid at end of watch 30.28. P. A. Pay. Yorke, and Asst. Engr. Bevington left ship on leave.

W.C.P. Muir Ensign.

4 to 8 P.M. Overcast. Heavy showers of rain during entire watch. Light airs from N.N.E. Flood tide during watch. No quarters on account of rain. Aneroid 30.32.

Wainwright Kellogg Lieut.

8 P.M. to Midnight. Rainy and disagreeable. Calm to light Northerly airs. Barometer rising slowly. Swung to Ebb at 8:40. Fires banked under No 1. Boiler. Aneroid 30.32.

W.C.P. Muir Ensign.

Moon l mid

Examined and found to be correct.

Dec 18° 01' 30" S

Phase Last Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W by N	North	1		3021	66	63	61		ocr lt	cum & nimb	0	S	
2	〃		〃	〃	1		3021	65	62	60		ocd	〃	0	〃	
3	〃		〃	〃	1		3018	65	63	61		bc	cir cum	6	〃	
4	〃		〃	〃	1		3017	65	62	60		oc	〃	0	〃	
5	〃		〃	〃	2		3017	65	62	60		ocr	cir cum & nimb	0	〃	
6	Flood		E by S	〃	2		3017	65	62	60		〃	〃	0	〃	
7	〃		〃	〃	1		3019	66	60	59		oc	〃	0	〃	
8	〃		〃	〃	1		3020	66	60	59		〃	〃	0	〃	
9	〃		〃	〃	1		3022	69	61	59		〃	〃	0	〃	
10	Ebb		W by N	N.N.W.	2		3025	71	59	57		〃	〃	0	〃	
11	〃		〃	〃	2		3028	73	59	57		ocd	〃	0	〃	
Noon.	〃		〃	〃	2		3028	75	59	57		〃	〃	0	〃	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ⊙	° ′ ″	
Longitude by Chronometer from Forenoon Observations ⊙	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ⊙ observed at	° ′ ″	
Water expended during the preceding 24 hours	300	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	2800	"
Coal consumed during the preceding 24 hours	tons 1900	lbs.
Coal remaining on hand at Noon	98 " 1560	"

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Ebb		W by N	N.N.W.	2		3027	74	59	57		ocd	cum & nimb	0	S	
2	〃		〃	〃	2		3023	73	60	58		〃	〃	0	〃	
3	〃		〃	〃	2		3020	73	61	59		oc	cum strat & nimb	0	〃	
4	Turning to Flood		S. W.	〃	2		3020	73	61	59		〃	〃	0	〃	
5	〃		E by S	North	2		3020	70	64	61		〃	〃	0	〃	
6	〃		〃	〃	2		3022	69	65	61		〃	〃	0	〃	
7	〃		〃	〃	2		3022	65	65	61		〃	cum & cir cum	0	〃	
8	〃		〃	〃	2		3025	65	64	60		〃	〃	0	〃	
9	〃		〃	〃	1		3025	65	63	60		〃	〃	0	〃	
10	Ebb		W.N.W.	N.N.E	2-4		3027	67	63	60		ocq	〃	0	〃	
11	〃		〃	〃	2		3027	67	61	58		oc	〃	0	〃	
Mid.	〃		〃	〃	2		3027	66	60	57		〃	〃	0	〃	

Longitude by Chronometer from Afternoon Observations ⊙	° ′ ″
Longitude by Chronometer from Observations *	° ′ ″
Variation of the Compass by Amplitude observed at sunset	° ′ ″
Variation of the Compass by at	° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday. February 20th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commencing and until 4 A.M. Weather overcast and rainy in first part of watch, clearing up in latter part. Light breeze from North. Barometer falling. Riding to Ebb tide. Fires banked under one boiler. Aneroid Barometer 30.28.

Karl Rohrer, KR Lieut.

4 to 8 A.M. Overcast. Raining during watch. Slack water at 5:00, and at 5:50 finished swinging to flood. Light breeze from North. Aneroid 30.28.

Wainwright Kellogg WK Lieut

8 A.M. to Meridian. Clearing weather. Light winds from North, hauling to N.N.W. latter half of watch. Rising Barometer. Slack water at 8:55. Finished swinging to Ebb at 9:15. At 9:20. crossed light yards, loosed sail to a bowline. At 10:55. furled sail, and sent down Royal and Top gallant yards. Went to quarters at 9:30. after which had divisional instruction. Threw overboard 2 cans of canned meat condemned by Board of Survey. Aneroid at noon 30.38.

W.C.P. Muir WCPM Ensign.

Meridian to 4 P.M. Weather pleasant. Light breeze from N.N.W. Barometer falling. Slack water at 3:00. Swung to flood at 4:00. Fires banked under one boiler. Aneroid Barometer 30.31.

Karl Rohrer KR Lieut.

4 to 8 P.M. Overcast but pleasant. Light Northerly winds. Rising Barometer. Fires banked under No 1. boiler. Received in Pay Dept. for issue to crew. 141 lbs. fresh beef and vegetables, and 113 loaves of Bread. Aneroid at 8 P.M. 30.36. Ship riding to flood.

W.C.P. Muir PM Ensign.

8 P.M. to Midnight. Weather cloudy but pleasant. Breeze light to moderate from North to N.N.E. Swung to Ebb tide at 10:00. Fires banked under one boiler. Aneroid Barometer 30.40.

Karl Rohrer, KR Lieut.

Moon l mid
Dec 18° 49' 18" S.
Phase. Last Quarter.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W.N.W.	N.N.E	2		3028	65	59	55		bc	cum-strat	7	S	
2	"		"	"	2		3028	65	59	55		"	"	8	"	
3	"		"	N.N.W.	3		3028	63	57	53		"	Strat	9	"	
4	"		"	"	2		3028	63	57	53		"	"	9	"	
5	"		"	"	2		3028	62	57	53		"	"	9	"	
6	"		West	"	2		3028	60	57	53		"	"	9	"	
7	Flood		"	"	1		3030	58	56	53		"	cir	9	"	
8	"		E.S.E	"	1		3032	58	56	53		"	"	9	"	
9	"		"	North	2		3035	65	60	56		"	"	9	"	
10	"		"	"	2		3037	66	61	56		"	"	9	"	
11	"		"	"	2		3039	68	62	56		"	"	9	"	
Noon.	Ebb		E by S	"	2		3039	69	62	56		"	"	9	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2500 "

Coal consumed during the preceding 24 hours tons 1800 lbs.

Coal remaining on hand at Noon 97 " 2000 "

P. M.															
1	Ebb		W by N	North	2		3030	70	64	58		bc	cir	9	S
2	"		"	W by N	2		3027	65	66	58		"	"	9	"
3	"		"	"	2.4		3027	65	67	59		bcq	"	9	"
4	"		"	"	2.4		3027	65	67	59		"	"	9	"
5	Swinging to Flood		N.E.	N.N.E	2		3028	68	68	59		bc	"	9	"
6	"		E by S	"	2		3028	67	66	59		"	cirro-strat	8	"
7	"		"	"	1		3028	66	66	59		"	"	8	"
8	"		"	"	1		3028	66	66	59		"	cum-strat	8	"
9	"		"	N.E	2		3028	67	63	58		"	Cir	9	"
10	"		"	"	2		3028	67	63	56		"	"	9	"
11	Ebb		W by N	"	2		3028	65	61	55		"	"	9	"
Mid.	"		"	"	2		3030	64	61	55		"	"	9	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander. A. H. Mc Cormick. , U. S. Navy,
Thursday. February 21st , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and cool. Light breeze from Nd and Ed to Nd and Wd. Barometer steady. Riding to Ebb tide. Aneroid at end of watch 30.40.

C. P. Rees Lieut

4 to 8 A.M. Clear and pleasant. Light N.N.W. winds. Barometer rising. Slack water at 6:15. Swung to flood at 7:30. Crossed light yards and loosed sail to a bowline at 7:25. Cleaned bilges. Aneroid at 8 A.M. 30.46.

W.C.P. Muir Ensign.

8 A.M. to Meridian. Weather clear and pleasant. Light breeze from Nor th. Barometer rising. At 9:30 mustered at quarters and had divisional drill. Swung to Ebb tide at 11.00. Aneroid Barometer 30.43

Karl Rohrer, Lieut.

Meridian to 4 P.M. Weather clear and pleasant. Gentle breeze from Nd and Wd. Barometer steady. Ebb tide. Aneroid at end of watch 30.36.

C. P. Rees Lieut

4 to 8 P.M. Weather clear and pleasant. Light breeze from N.N.E. Barometer steady. Swung to flood tide at 5:00. At 4:30 sent down royal yards. At 4:45 mustered crew at quarters. Fires banked under one boiler. Aneroid Barometer 30.40.

Karl Rohrer, Lieut.

8 P.M. to Midnight. Weather clear and pleasant. Light breeze from W by N. Barometer steady. Began swinging to Ebb tide at 9:50, and finished at 11.00. Aneroid at end of watch 30.42.

C. P. Rees Lieut.

Moon C mid Examined and found to be correct.
Dec. 18° 45' 54" S.
Phase. Last Quarter.

W. H. [illegible]
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton, China.

				Winds.			Barometer.		Temperature.							
Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Ebb		W by N	N. E.	1		3032	64	58	54		bc	cir	9	S	
2	"		"	"	1		3030	63	57	54		"	"	9	"	
3	"		"	"	1		3030	62	56	52		"	"	9	"	
4	"		"	"	1		3030	62	56	52		"	"	9	"	
5	"		"	North	2		3030	61	56	53		"	"	9	"	
6	"		"	"	2		3035	61	55	52		"	Ciro-strat	8	"	
7	"		"	"	2		3040	61	55	52		"	"	8	"	
8	"		"	"	2		3041	62	56	53		"	Cir	9	"	
9	Flood		E by S.	N N E	2		3043	67	57	52		"	"	9	"	
10	"		"	"	2		3044	70	60	54		"	"	9	"	
11	"		"	"	2		3046	70	63	56		"	cum strat cir cum	4	"	
Noon.	"		"	"	2		3044	67	64	57		"	cir & cir cum	5	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2200 "

Coal consumed during the preceding 24 hours tons 1900 lbs.

Coal remaining on hand at Noon 97 " 100 "

P. M.																
1	Ebb		W by N	N. E.	1		3044	67	64	57		bc	Cir Cum	6	S	
2	"		"	"	1		3042	67	64	58		"	"	4	"	
3	"		"	"	1		3040	67	65	59		"	"	4	"	
4	"		"	"	1		3040	67	65	59		"	"	4	"	
5	"		"	"	1		3036	67	66	59		"	"	4	"	
6	"		"	"	1		3034	67	66	59		"	"	4	"	
7	"		"	"	1		3034	67	66	59		"	"	3	"	
8	Flood		"	"	1		3034	67	66	59		ocd	"	0	"	
9	"		E by S	North	1		3036	67	66	60		"	Cum & Nimb	0	"	
10	"		"	"	1		3038	66	66	60		oc	"	0	"	
11	"		"	"	1		3039	66	65	60		bc	cir cum	4	"	
Mid.	"		"	"	1		3040	65	65	59		oc	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Friday February 22nd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light N.E. airs. Aneroid Barometer 30.43.

R.O. Bitter Ensign.

4 to 8 A.M. Weather clear and pleasant. Light breeze from North. Barometer rising. Cirro stratus and cirrus clouds. At sunrise dressed ship in rainbow fashion to commemorate Washington's birth. Fires banked under one boiler. The French Gunboat "Lutin" and the English Gunboat "Fly" followed our motions in dressing ship. Low water at 7:30. Aneroid Barometer 30.52.

Karl Rohrer Lieut.

8 A.M. to Meridian. Weather clear and pleasant. Light breeze from N.N.E. Barometer rising. Mustered at quarters at 9:30. No drills. Aneroid at end of watch 30.52. Swung to flood at 8:50.

J.P. Rees Lieut.

Meridian to 4 P.M. Weather fair and pleasant. Light N.E. airs. Slack water at 12:30, and finished swinging to Ebb at 1:30. Aneroid Barometer at end of watch 30.43.

R.O. Bitter Ensign.

From 4 to 8 P.M. Weather cloudy, and last hour of watch, overcast with light drizzling rain. Barometer steady. Began swinging to flood tide at 6:20; and finished at 7:05. At sunset lowered flag dressing, and illuminated ship with 500 Chinese lanterns purchased by the crew. Expended 70 Coston Signals, and exercised Signal Class at making (with Very's Signals) Nos 44, interrogatory 1211, and 6144. Aneroid at end of watch 30.44.

J.P. Rees Lieut.

8 P.M. to Midnight. Overcast during nearly the whole watch. Light Northerly airs. At 8:25 piped down lanterns used in dressing ship. Aneroid Barometer 30:52.

R.O. Bitter Ensign.

Moon l mid

Dec 17°48'35"S.

Phase. Last Quarter.

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Canton, China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Ebb		W by N.	North	1		3040	66	64	59		oc	cir cum and cum	0	S	
2	"		"	N.N.E	1		3038	66	64	59		bc	"	3	"	
3	"		"	"	1		3037	66	64	59		"	"	4	"	
4	"		"	"	1		3037	66	63	58		oc	"	0	"	
5	"		"	"	1		3038	65	60	56		"	"	0	"	
6	"		"	"	1		3038	65	60	56		"	"	0	"	
7	"		"	"	1		3041	60	58	54		bc	cum and cir cum	2	"	
8	"		"	N.N.W.	1		3045	64	57	53		"	cum strat and cum	1	"	
9	Swinging to Flood		"	"	2		3050	67	57	53		"	"	1	"	
10	"		E by S	"	2		3052	67	57	53		"	"	2	"	
11	"		"	"	2		3052	67	58	54		"	"	1	"	
Noon.	"		"	"	2		3050	68	59	54		"	cir cum and strat	5	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ☉ ° ′ ″

Longitude by Chronometer from Forenoon Observations ☉ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ☉ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1900 "

Coal consumed during the preceding 24 hours tons 1900 lbs.

Coal remaining on hand at Noon 96 " 840 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	North	2		3046	66	59	52		bc	circum	4	S	
2	Ebb		W by N	"	2		3044	69	62	54		"	cir and cir cum	6	"	
3	"		"	N.N.W.	2		3042	70	63	55		"	"	7	"	
4	"		"	"	2		3042	70	65	56		"	"	7	"	
5	"		"	"	2		3041	71	65	56		"	"	8	"	
6	"		"	"	1		3041	71	65	56		"	"	8	"	
7	"		"	"	1		3041	71	65	56		"	"	8	"	
8	Flood		E by S	"	1		3041	71	65	56		"	"	8	"	
9	"		"	North	2		3046	69	61	55		"	Cir	9	"	
10	"		"	"	2		3047	66	59	54		"	"	9	"	
11	"		"	"	2		3047	65	58	53		"	"	9	"	
Mid.	"		"	"	2		3047	65	58	53		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ☉ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday February 23rd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy overcast during portion of watch Light airs from North to N.N.E. Slack water at 12:15; swung to the Ebb at 1:00 Aneroid Barometer 30.48.

W.M. Irwin wmi Lieut.

From 4 to 8 A.M. Weather cloudy and pleasant. Light breeze from N.N.E. Barometer rising. Aneroid at end of watch 30:56.

C.H. Rees Lieut.

8 A.M. to Meridian. Cloudy and pleasant. Light N.N.W. breeze. At 9:30. mustered at quarters. At 9:15. sent down Topgallant yards, unbent the sails and sent them aloft again. Slack water at 8:40; finished swinging to flood at 10:15. Aneroid Barometer 30.59.

R.O. Bitler ROB Ensign.

Meridian to 4 P.M. Pleasant weather. Light breeze from North, veering to N.N.W. Slack water at 1:30; swung to the Ebb at 2:00. Asst Engr M. Bevington returned from leave. Aneroid Barometer 30.48.

W.M. Irwin wmi Lieut.

4 to 8 P.M. Clear and pleasant, with light airs from N.N.W. Slack water at 7:15; finished swinging to flood at 7:45. At 4:45. went to quarters and turned in clean hammocks. Received on board in Pay Dept. 141 lbs fresh beef and vegetables, and 113 loaves bread. Aneroid Barometer 30.52.

R.O. Bitler ROB Ensign.

8 P.M. to Midnight. Clear and cool. Gentle breeze from North. Flood tide. Aneroid Barometer 30.57.

W.M. Irwin wmi Lieut.

Moon C mid Examined and found to be correct.
Dec 15° 56' 50" S.
Phase Last Quarter.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3^d* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S.	North	2		3046	62	57	52		bc	cir cum	4	S	
2	Ebb		W by N.	"	2		3046	62	57	52		"	"	7	"	
3	"		"	"	2		3046	61	56	51		"	"	4	"	
4	"		"	"	2		3044	61	56	51		"	"	5	"	
5	"		"	"	2		3044	61	56	51		"	"	5	"	
6	"		"	"	2		3044	60	56	51		"	"	7	"	
7	"		"	"	2		3045	58	57	52		"	"	4	"	
8	"		"	"	2		3047	57	57	52		"	"	2	"	
9	"		"	"	2		3050	65	56	52		oc	cum and cir cum	0	"	
10	Flood		"	N.N.W.	2		3053	65	56	50		-oc	"	0	"	
11	"		E by S	"	2		3053	67	58	50		"	"	0	"	
Noon.	"		"	"	2		3053	68	58	50		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1600* "

Coal consumed during the preceding 24 hours tons *1700* lbs.

Coal remaining on hand at Noon *95* " *1380* "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	North	3		3053	68	58	49		bc	cum-strat and limt	1	S	
2	"		"	"	3		3050	67	58	48		"	"	1	"	
3	Ebb		W by N	N.N.E	3		3048	68	59	48		"	cir cum	2	"	
4	"		"	"	3		3046	68	61	50		"	"	6	"	
5	"		"	North	2		3046	67	60	50		"	cir cum and strat	5	"	
6	"		"	"	2		3046	67	60	50		"	"	5	"	
7	"		"	"	1		3046	66	59	51		"	Cir Cum	8	"	
8	"		"	"	1		3046	65	58	51		"	"	8	"	
9	Flood		E by S	"	1		3047	65	58	51		"	"	8	"	
10	"		"	"	1		3047	65	57	50		"	"	7	"	
11	"		"	"	1		3047	65	57	50		"	"	7	"	
Mid.	"		"	"	1		3046	62	56	50		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick. , U. S. Navy,
Sunday February 24th , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from North. Slack water at 12:50;- and at 1:30. finished swinging to Ebb. Aneroid 30.54.
Wainwright Kellogg
wk Lieut

4 to 8 A.M. Fair and pleasant. Light breeze from North. Aneroid Barometer 30.61.
R.O. Bitler Ensign.

8 A.M. to Meridian. Overcast, cloudy and cool. Moderate breeze from N.N.W. Slack water at 9:15. Swung to the Flood at 10:20. Mustered at quarters at 9:30. Comd'g Officer inspected the ship and crew. Aneroid Barometer 30.64.
W. M. Irwin
wmI Lieut.

Meridian to 4 P.M. Cloudy. Pleasant. Moderate breeze from North. to N.N.E. Slack water at 1:50, and at 2:45. finished swinging to Ebb. H.B.M.S. "Linnet" and German Gunboat "Wolf" came up the river from Hong Kong and anchored:- boarded them with the usual offers of civilities. Clearing weather at end of watch. Aneroid 30.52.
Wainwright Kellogg wk Lieut.

4 to 8 P.M. Pleasant weather. Gentle breeze from Nd. Ebb tide. Aneroid Barometer 30.54.
W. M. Irwin
wmI Lieut.

8 P.M. to Midnight. Clear and cool. Light breeze from North. Slack water at 8:00. and at 8:30. finished swinging to flood. Aneroid 30.56.
Wainwright Kellogg wk Lieut.

Moon l mid Examined and found to be correct.
Dec. 13°-13'-28" S
Phase. Last Quarter.

W. H. Parker
Lieut. and Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate, 6 Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	North	1		3047	61	55	49		bc	Cir	9	S	
2	Swinging to Ebb		"	"	1		3046	60	54	48		"	"	9	"	
3	"		W by N	"	1		3044	59	53	47		"	"	9	"	
4	"		"	"	1		3043	58	53	47		"	"	9	"	
5	"		"	"	1		3044	57	51	47		"	"	9	"	
6	"		"	"	1		3042	57	50	46		"	"	9	"	
7	"		"	"	1		3044	56	50	46		"	"	9	"	
8	"		"	"	1		3046	57	51	46		"	"	9	"	
9	"		"	"	1		3046	57	53	47		"	"	9	"	
10	"		"	East	1		3047	60	56	50		"	"	9	"	
11	Flood		E by S	"	1		3048	65	60	51		"	"	9	"	
Noon.	"		"	"	1		3048	66	61	51		"	"	9	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1300 "

Coal consumed during the preceding 24 hours tons 1800 lbs.

Coal remaining on hand at Noon 94 " 1820 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	S. by E	1		3044	65	62	53		bc	cir	9	S	
2	"		"	"	1		3040	65	64	54		"	"	9	"	
3	"		"	Calm	0		3035	65	64	54		"	"	9	"	
4	Ebb		W by N	S.S.W.	1		3030	65	66	54		"	"	9	"	
5	"		"	"	1		3030	64	66	56		"	"	8	"	
6	"		"	"	1		3030	65	65	56		"	cirro-strat	8	"	
7	"		"	"	1		3030	67	64	56		"	"	8	"	
8	"		"	"	1		3032	67	63	56		"	cir	9	"	
9	"		East	Calm	0		3034	67	61	56		"	"	9	"	
10	Flood		E by S	"	0		3034	67	61	56		"	"	9	"	
11	"		"	S. E	1		3034	67	60	56		"	"	9	"	
Mid.	"		"	"	1		3034	66	59	55		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Monday February 25th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light airs from North. Barometer falling slowly. Slack water at 1:25. Finished swinging to Ebb at 2:40. Fires banked under one boiler. Aneroid at end of watch 30.54.

w c p m
W. C. P. Muir Ensign.

4 to 8 A.M. Clear and cool. Light airs from Nd. Ebb tide. At daylight H.M.S. "Fly" got underway and left the harbor. H.M.S. "Linnet" shifted berth to the one vacated by the "Fly" Aneroid Barometer 30.58.

W. M. Irwin
w m i
Lieut.

8 A.M. to Meridian. Clear and pleasant. Light airs from East. Slack water at 9:30.- and at 10:30. finished swinging to flood. At 9:30. mustered at quarters. Exercised the Battalion. Exercised Divisions at Company drill. Aneroid 30.54.

Wainwright Kellogg
w k
Lieut

Meridian to 4 P.M. Clear and pleasant. Calm to light airs from S by E. and S.S.W. Falling barometer. Slack water at 2:40. Finished swinging to Ebb at 3:30. Received official visit from Comdg Officer of French Gunboat "Lutin." Chinese War vessel left port. Aneroid at end of watch 30.40.

p m
W. C. P. Muir Ensign.

4 to 8 P.M. Clear and pleasant. Light airs from S.S.W. At 4.45. mustered at quarters. Ebb tide during watch. Received in Pay Dept 146 lbs beef and vegetables, and 113 loaves of bread. Aneroid 30.40.

w k
Wainwright Kellogg Lieut.

8 P.M. to Midnight. Clear and cool. Calm to light S. E. airs. Steady Barometer. Slack water at 8:05. Finished swinging to flood at 9:05. Aneroid at end of watch 30.43.

p m
W. C. P. Muir Ensign.

Moon l mid Examined and found to be correct.
Dec. 9° 44' 31" S.
Phase. Last Quarter.

25

W. P. T. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S.	S. E	1		3033	63	56	54		bc	circum	8	S	
2	〃		〃	〃	1		3032	63	55	52		〃	〃	8	〃	
3	〃		〃	〃	1		3032	63	54	52		〃	〃	8	〃	
4	Ebb		W by N	〃	1		3029	59	54	51		〃	〃	8	〃	
5	〃		〃	〃	1		3030	58	54	52		〃	〃	8	〃	
6	〃		〃	〃	1		3030	58	54	52		〃	Circo-strat	8	〃	
7	〃		〃	〃	1		3034	58	54	52		〃	〃	7	〃	
8	〃		〃	〃	1		3036	61	55	53		〃	Cir & Cum	8	〃	
9	〃		〃	N. E	2		3037	67	57	53		〃	〃	8	〃	
10	〃		〃	〃	2		3038	68	58	54		〃	Cir	9	〃	
11	Swinging to Flood		East	South	2		3036	67	61	56		〃	〃	9	〃	
Noon.	〃		E by S.	〃	2		3033	66	64	58		〃	〃	9	〃	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ⊙	° ′ ″	
Longitude by Chronometer from Forenoon Observations ⊙	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ⊙ observed at	° ′ ″	
Water expended during the preceding 24 hours	300	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	1000	"
Coal consumed during the preceding 24 hours	tons 1800	lbs.
Coal remaining on hand at Noon	94 "	20 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	South	1		3030	67	66	59		bc	Cir	9	S	
2	〃		〃	〃	1		3027	68	67	60		〃	〃	9	〃	
3	〃		〃	〃	1		3024	70	67	60		〃	〃	9	〃	
4	Ebb		W by N	〃	1		3022	70	67	60		〃	〃	9	〃	
5	〃		〃	〃	1		3020	66	67	61		〃	〃	9	〃	
6	〃		〃	〃	1		3017	66	67	59		〃	〃	9	〃	
7	〃		〃	〃	1		3016	66	66	59		〃	〃	9	〃	
8	〃		〃	〃	1		3016	67	65	59		〃	〃	9	〃	
9	〃		〃	〃	1		3019	67	64	59		〃	〃	9	〃	
10	〃		〃	S. E.	1		3022	66	63	59		〃	〃	9	〃	
11	Flood		E by S	〃	1		3022	66	62	58		〃	〃	9	〃	
Mid.	〃		〃	Calm	0		3022	65	61	57		〃	〃	9	〃	

Longitude by Chronometer from Afternoon Observations ⊙	° ′ ″
Longitude by Chronometer from Observations *	° ′ ″
Variation of the Compass by Amplitude observed at sunset	° ′ ″
Variation of the Compass by at	° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday February 26th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light air from S.E. Barometer falling. Fires bankend under one boiler. Aneroid Barometer 30.44. Swung to ebb tide at 3:50.

Karl Rohrer, Lieut.

4 to 8 A.M. Clear and pleasant. Light airs from S.E. Ebb tide during watch. Aneroid 30.48.

Wainwright Kellogg
Lieut

8 A.M. to Meridian. Clear bright and pleasant with light N.E. winds shifting to South latter half of watch. Falling Barometer. Went to quarters at 9:30 for divisional drill after which had boats armed and away for distant service. Com'dg Officer paid official visits on board German War vessel "Wolf" and H.M.S. "Linnet." Aneroid at end of watch 30.42. Slack water at 10:35. Finished swinging to flood at 11:10.

W. C. P. Muir Ensign.

Meridian to 4 P.M. Weather clear and pleasant. Light S.E. breeze. Barometer falling. High water at 3:15. Swung to ebb tide at 4:00. Fires banked under one boiler. Aneroid Barometer 30.29.

Karl Rohrer, Lieut.

4 to 8 P.M. Clear and pleasant. Light winds from South. Barometer falling slowly. Ship riding to Ebb. Went to quarters for muster at 4.45. Aneroid at end of watch 30.30. Fires banked under one boiler.

W. C. P. Muir Ensign.

8 P.M. to Midnight. Weather clear and pleasant. Light airs from South to S.E. Barometer rising. Cirrus clouds. Low water at 9:00. Swung to flood tide at 9:30. Fires banked under one boiler. Aneroid Barometer 30.33.

Karl Rohrer, Lieut.

Moon ℓ mid
Dec. 5°39'00" S.
Phase. New Moon.

Examined and found to be correct.

26

W. H. Parker
Lieut. and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton, China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	Calm	0		30 19	65	60	58		bc	Cir cum	6	S	
2	"		"	East	1		30 19	65	60	58		"	"	7	"	
3	"		"	"	1		30 17	65	60	58		"	"	7	"	
4	Ebb		W by N.	"	1		30 15	65	60	58		oc	cir cum cum & nimb	0	"	
5	"		"	"	1		30 15	63	59	56		ocd	"	0	"	
6	"		"	"	1		30 15	63	59	56		oc	"	0	"	
7	"		"	"	1		30 17	62	59	56		"	"	0	"	
8	"		"	"	1		30 17	63	59	56		bc	"	1	"	
9	"		"	"	1		30 19	65	61	58		"	"	1	"	
10	"		"	"	1		30 22	67	63	59		"	"	2	"	
11	Swinging to Flood		"	E. S. E	2		30 22	70	64	60		"	Cir Cum	4	"	
Noon.	"		E by S.	"	2		30 22	71	65	60		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *700* "

Coal consumed during the preceding 24 hours tons *2100* lbs.

Coal remaining on hand at Noon *93* " *160* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	S. E.	2		30 18	73	67	62		bc	cum and cir cum	3	S	
2	"		"	"	1		30 15	70	67	63		"	"	2	"	
3	"		"	"	1		30 13	70	67	63		"	"	2	"	
4	"		"	"	1		30 13	70	68	64		"	"	4	"	
5	Ebb		W by N	"	1		30 12	70	68	64		"	"	4	"	
6	"		"	"	1		30 12	70	68	64		"	cir cum and strat	4	"	
7	"		"	"	1		30 12	70	68	64		"	"	7	"	
8	"		"	"	1		30 12	70	68	64		"	cir	8	"	
9	"		"	Calm	0		30 16	69	69	65		"	cir & cum	7	"	
10	"		"	"	0		30 18	68	68	65		"	"	6	"	
11	Swinging to Flood		N. E.	"	0		30 19	67	67	64		"	Cum & nimb	4	"	
Mid.	"		E by N.	"	0		30 19	67	67	64		"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday February 27th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light airs from Ed. Barometer falling. Aneroid at end of watch 30.30.

C. H. Kee Lieut.

4 to 8 A.M. Generally cloudy. Light airs from East. Barometer rising slowly. Ship riding to Ebb tide. Overhauled ground tackle and backed out shackle pins of bower and sheet cables. Found all in excellent condition. Aneroid at end of watch 30.32.

W. C. White Jr Ensign.

8 A.M. to Meridian. Weather pleasant. Light breeze from East to E.S.E. Barometer steady. Engaged in breaking out and restowing hold. Low water at 10:30. Swung to flood at 11:30. Threw overboard nine (9) bbls. equal to ~~two~~ hundred and seventy gallons (270) of beans; which were condemned to be thrown overboard by board of survey. Aneroid Barometer. 30.32.

Karl Rohrer Jr Lieut

Meridian to 4 P.M. Weather cloudy and pleasant. Light airs from S.E. Barometer falling. Aneroid at end of watch 30.22. Began swinging to Ebb tide at 3.30.

C. H. Kee Lieut

4 to 8 P.M. Weather clear and pleasant. Light breeze from S.E. Barometer steady. At 4:15. swung to ebb tide. H.B.M.S. "Vigilant" flying the flag of Vice Admiral Willes came in and anchored, we saluted her as she passed by parading the Marine Guard. Sent an officer on board with the usual offer of civilities. The Captain called on the Admiral officially. At 4.45. mustered at quarters. Fires banked under one boiler. Aneroid Barometer 30.25.

Karl Rohrer Jr Lieut

8 P.M. to Midnight. Weather cloudy and pleasant. Calm. Barometer rising. Began swinging to flood tide at 10:10: finished at 11.00. Aneroid at end of watch. 30.26.

C. H. Kee Lieut.

Moon l mid
Dec. 1° 01' 42" S
Phase. New Moon.

Examined and found to be correct.

W. S. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3^d^* Rate, *6* Guns,

Anchored off Canton China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E.S.E	Calm	0		3018	66	65	63		bc	Cir Cum	5	S	
2	"		"	S. E.	1		3018	65	65	63		"	"	2	"	
3	"		"	"	1		3018	64	64	62		"	"	2	"	
4	"		"	"	1		3016	64	64	62		"	"	1	"	
5	Ebb		W by N.	East	1		3017	65	64	62		"	"	3	"	
6	"		"	"	1		3017	65	64	62		"	"	2	"	
7	"		"	"	1		3017	65	64	63		"	"	2	"	
8	"		"	"	1		3017	65	64	63		"	"	4	"	
9	"		"	S. E	2		3022	66	65	63		"	"	4	"	
10	"		"	"	2		3024	67	66	64		"	"	5	"	
11	"		"	South	2		3025	68	68	64		"	"	1	"	
Noon.	"		"	"	2		3022	68	68	65		"	"	1	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water *distilled* during the preceding 24 hours *800* "

Water remaining on hand fit for use at Noon *1200* "

Coal consumed during the preceding 24 hours *1* tons *1360* lbs.

Coal remaining on hand at Noon *91* " *1040* "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	South	1		3020	69	69	65		bc	Cir Cum	6	S	
2	"		"	"	1		3018	70	70	65		"	"	8	"	
3	"		"	"	1		3016	69	70	65		"	Cum & Nimb	3	"	
4	"		"	Calm	0		3014	69	70	65		"	"	2	"	
5	Ebb		W by N	South	1		3014	69	70	65		"	Cir cum & Nimb	3	"	
6	"		"	"	1		3014	69	70	65		"	"	4	"	
7	"		"	S. E	1		3015	68	70	65		"	"	7	"	
8	"		"	"	1		3017	68	70	65		"	"	7	"	
9	"		"	"	1		3018	70	68	65		"	"	7	"	
10	"		"	"	1		3019	70	67	64		"	"	8	"	
11	"		"	N. N. E	1		3019	70	67	64		"	Cir	9	"	
Mid.	Flood		E by S	"	1		3019	68	67	64		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander. A. H. McCormick. , U. S. Navy,
Thursday February 28th , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant, calm first hour, light S.E. airs last three hours. Aneroid Barometer 30.26.

R. V. Bitler Ensign.

4 to 8 A.M. Weather pleasant. Light airs from East. Barometer steady. Swung to Ebb at 5:00. Commenced distilling water at 6:00. Aneroid Barometer 30.32.

Karl Rohrer, Lieut

8 A.M. to Meridian. Weather cloudy and pleasant. Gentle breeze from Sd. Barometer rising. Mustered at quarters at 9:30 and exercised 1st Div. at Howitzer, 2nd Div. at Skirmish drill, 3rd Div. at Gatling and Marine Guard at small arms. By order of Comd'g Officer released Robert W. Allen (O.S.) and placed William Spellman (Sea) in solitary confinement on bread and water for three days in accordance with previous sentence, for lying at the mast. Enlisted for three years on Hon. Dis. Henry Cater, as Seaman. The Comd'g Officer of H. M. S. "Vigilant" visited the ship officially at 10:20. Began swinging to flood tide at 11.15. and finished at 12:00. Aneroid at end of watch 30.32. Distilling.

Okes Lieut

Meridian to 4 P.M. Clear first two hours, clouding up towards end of watch. Light Southerly airs. "Hankow" and Macao steamer came in Chinese Gunboat came in. Aneroid Barometer 30.23. Comd'g Officer left ship to pay official visit to H. M. S. "Linnet."

R. O. Bitler Ensign.

From 4 to 8 P.M. Weather partly cloudy and pleasant. Light airs from Sd. and Ed. Barometer steady. Mustered at quarters at 4:45. Aneroid at end of watch 30.26. Began swinging to Ebb tide at 4:10: finished at 5:00

Okes Lieut.

8 P.M. to Midnight. Clear and pleasant. Light airs from S. E. hauling to N.N.E. last two hours. Slack water at 10:45. Finished swinging to flood at 11:55. Aneroid Barometer 30.30.

R. O. Bitler Ensign.

Moon C mid
Dec. 3° 25' 38" N.
Phase, New Moon.

Examined and found to be correct.

W. H. Parker
Lieut. and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	Flood		E by S	E.N.E.	1		3020	67	66	63		bc	cir	9	S	
2	"		"	"	1		3020	66	65	62		"	"	9	"	
3	"		"	"	1		3018	65	65	62		"	"	9	"	
4	"		"	"	1		3016	65	64	61		"	"	9	"	
5	"		"	Calm	0		3018	64	63	61		"	Cir Cum	6	"	
6	Ebb		W by N	"	0		3018	64	63	61		"	"	4	"	
7	"		"	"	0		3020	64	64	62		"	"	3	"	
8	"		"	"	0		3024	64	64	61		"	"	4	"	
9	"		"	"	0		3025	66	65	62		"	"	4	"	
10	"		"	S.S.W	1		3026	68	67	62		"	"	4	"	
11	"		"	"	1		3027	70	70	64		"	"	4	"	
Noon.	"		"	"	1		3027	70	70	64		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *300* gallons.

Water *distilled* during the preceding 24 hours *2000* "

Water remaining on hand fit for use at Noon *2900* "

Coal consumed during the preceding 24 hours *1* tons *1460* lbs.

Coal remaining on hand at Noon *89* " *1820* "

P. M.																
1	Flood		E by S	South	1		3020	68	70	65		bc	Cir Cum	6	S	
2	"		"	"	1		3018	69	71	65		"	"	7	"	
3	"		"	S.S.E.	2		3016	70	71	65		"	"	7	"	
4	"		"	"	2		3015	71	71	65		"	"	8	"	
5	"		"	"	2		3015	71	71	66		"	Cir Cum & strat	6	"	
6	Swinging to Ebb		W.N.W.	"	2		3015	70	70	65		"	"	4	"	
7	"		W by N	"	1		3015	70	70	65		"	"	4	"	
8	"		"	"	1		3015	70	69	65		"	cir	9	"	
9	"		"	"	2		3016	70	68	64		"	"	9	"	
10	"		"	"	2		3017	70	67	64		"	"	9	"	
11	"		"	"	2		3018	69	67	64		"	"	9	"	
Mid.	"		"	"	2		3018	69	67	64		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Friday February 29th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from E.N.E. Flood tide. At 2:50. stopped distilling water and banked fires. Anervid 30.28.

W.M. Irwin
wm I Lieut.

From 4 to 8 A.M. Weather cloudy and pleasant. Calm. Barometer rising. Anervid at end of watch 30.34. Began swinging to Ebb tide at 4.40: finished at 5:15.

Lieut.

8 A.M. to Meridian. Cloudy and pleasant, with light S.S.W. airs, calm first hour. At 9:30. exercised at general quarters. At 9:40. H.M.S. "Vigilant" got underway and steamed down river. At 10:15. went to fire quarters. Slack water at 11:45. Anervid Barometer 30.33. at end of watch. Tested life buoys, and found them in good working order.

R.O. Bitler Ensign.

Meridian to 4 P.M. Clear and warm. Light breeze from South, hauling to S.S.E. Swung to the flood at 12:15. French Gunboat "Lutin" got under way and left the harbor at 3:10. Anervid 30.24.

W.M. Irwin
wm I Lieut.

4 to 8 P.M. Weather fair and pleasant with light airs to light breeze from S.S.E. At 4.45. mustered at quarters. Slack water at 5.05. and finished swinging to Ebb at 6:00. Lieut W.H. Parker U.S.N. left ship for Hong Kong on duty. Anervid Barometer at end of watch 30.24. Received on board in Pay Dept 141 lbs fresh beef and vegetables, and 113 loaves of bread.

R.O. Bitler Ensign.

8 P.M. to Midnight. Clear and pleasant. Gentle breeze from S.S.E. Slack water at 11:45. Anervid Barometer 30.30.

W.M. Irwin.
wm I Lieut.

Moon l mid Examined and found to be correct.
Dec. 7°-57'-59" N.
Phase. New Moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"* , *3d* Rate, *6* Guns,

Anchored off Canton. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S	S.S.E	1		30.19	65	65	63		bc	ci	9	S	
2	"		"	"	1		3019	65	65	63		"	"	9	"	
3	"		"	"	1		3016	65	64	62		"	"	9	"	
4	"		"	"	1		3015	65	64	62		"	"	9	"	
5	"		"	E.N.E	2		3017	65	63	62		"	cum-strat ci. cum	5	"	
Swinging to Ebb			"	"	2		3017	65	63	61		"	"	2	"	
7	"		W by N	E.S.E	1.		3019	65	63	61		"	"	2	"	
8	"		"	"	1		3021	70	66	63		"	"	2	"	
9	"		"	Calm	0		3024	67	66	63		"	"	1	"	
10	"		"	"	0		3026	68	66	63		"	"	2	"	
11	"		"	S.S.W.	1		3025	67	67	63		"	"	2	"	
Noon.	"		"	"	1		3025	67	67	63		"	"	2	"	

Distance run by Log since preceding Noon		knots	fathoms.
Latitude by D. R. at Noon	°	′	″
Longitude by D. R. at Noon	°	′	″
Latitude by Observations at Noon ⊙	°	′	″
Longitude by Chronometer from Forenoon Observations ⊙	°	′	″
Current during the time knots fms. per hour, setting to the	°	′	″
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	′	″
Variation of the Compass by Azimuth ⊙ observed at	°	′	″
Water expended during the preceding 24 hours	300		gallons.
Water during the preceding 24 hours			"
Water remaining on hand, fit for use at Noon	2600		"
Coal consumed during the preceding 24 hours	1	tons 760	lbs.
Coal remaining on hand at Noon	88	" 1060	"

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Flood		E by S	S.S.W.	1		3023	69	68	65		bc	ci cum & cum	3	S	
2	"		"	"	1		3023	70	68	65		"	"	2	"	
3	"		"	"	1		3023	70	68	65		"	"	2	"	
4	"		"	"	1		3023	70	68	65		"	"	2	"	
5	"		"	E by N	1		3019	68	67	64		"	"	2	"	
6	"		S by E.	"	1		3015	68	67	64		"	"	2	"	
7	Ebb		W by N	E.N.E	1		3015	68	67	65		"	"	2	"	
8	"		"	Calm	0		3015	68	68	65		oc	"	0	"	
9	"		"	N.E.	1		3018	68	68	65		bc	"	3	"	
10	"		"	Calm	0		3018	68	68	65		oc	cum & nimb	0	"	
11	"		"	"	0		3018	68	68	64		"	"	0	"	
Mid.	"		"	"	0		3018	67	67	64		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙	°	′	″
Longitude by Chronometer from Observations *	°	′	″
Variation of the Compass by Amplitude observed at sunset	°	′	″
Variation of the Compass by at	°	′	″

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday March 1st, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from S.S.E. Finished swinging to flood at 12:10. Aneroid 30.29.

Wainwright Kellogg W.K. Lieut.

4 to 8 A.M. Clear first hour, cloudy during remainder of watch. Light airs to light breeze from E.N.E. and E.S.E. Slack water at 5:30 and finished swinging to Ebb at 6:40. Aneroid Barometer 30.33.

R.O. Bitler Ensign.

8 A.M. to Meridian. Cloudy and pleasant. Calm first part, light airs from S.S.W. remainder of watch. Ebb tide. Mustered and inspected at quarters at 9:30. Aneroid Barometer 30.30.

W.M. Irwin w.m.i. Lieut

Meridian to 4 P.M. Cloudy. Pleasant. Light airs from S.S.W. Slack water at 12:10. Finished swinging at 1:00. Aneroid 30.25.

Wainwright Kellogg W.K. Lieut

4 to 8 P.M. Pleasant weather. Light airs from E by N. Slack water at 5:40, swung to the Ebb at 6.35. Mustered at quarters at 4:45. Aneroid Barometer 30.27.

W.M. Irwin w.m.i. Lieut

8 P.M. to Midnight. Clear and pleasant. Light variable airs, and calms. Ebb tide during watch. Aneroid 30.26.

Wainwright Kellogg W.K. Lieut

Moon l mid
Dec. 11°49'51" N
Phase New moon

Examined and found to be correct.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"* , *3^d^* Rate, *6* Guns,

Anchored off Canton China.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		E by S	Calm	0		30 18	69	67	65		bc	cir cum and cum	4	S	
2	"		"	"	0		30 16	68	67	65		"	cir	9	"	
3	"		"	"	0		30 14	68	67	65		"	"	6	"	
4	"		"	"	0		30 12	68	67	65		"	"	7	"	
5	"		"	"	0		30 10	66	65	62		"	"	7	"	
6	"		"	"	0		30 10	66	64	62		"	"	6	"	
7	Ebb		W by N	E.N.E	1		30 11	64	64	62		"	"	4	"	
8	"		"	"	1		30 12	64	63	62		"	"	4	"	
9	"		"	East	1		30 16	66	65	63		"	cirro-cum and cir	6	"	
10	"		"	"	1		30 18	67	66	64		"	"	6	"	
11	"		"	South	1		30 18	67	69	65		"	cir cum	7	"	
Noon.	"		"	"	1		30 16	67	71	66		"	"	7	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2300* "

Coal consumed during the preceding 24 hours tons *1800* lbs.

Coal remaining on hand at Noon *87* " *1500* "

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	Swinging to Flood		E by S	S. E	1		30 12	68	73	67		bc	cir cum	6	S	
2	"		"	"	1		30 10	69	72	67		"	"	5	"	
3	"		"	"	1		30 08	70	72	67		"	"	5	"	
4	"		"	"	1		30 05	71	72	67		"	"	6	"	
5	Standing down Canton River		"	S. E. by E.	2		30 05	71	72	67		"	"	7	"	Steaming.
6	"		"	"	2		30 05	71	72	69		"	"	5	"	
7	"		"	"	3		30 07	71	69	67		"	"	8	"	
8	"		"	"	3		30 07	71	69	67		"	"	4	"	
9	Ebb		N.N.W.	South	2		30 10	69	69	66		"	"	4	"	
10	"		"	"	2		30 10	69	69	66		"	"	4	"	
11	"		"	"	1		30 10	68	69	66		"	"	4	"	
Mid.	"		"	"	1		30 10	68	68	66		"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Sunday March 2nd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Fair and pleasant. Calm throughout. Barometer falling slowly. Slack water at 12:40. Finished swinging to flood at 1:10. Aneroid at end of watch 30.22. Fires banked under one boiler.

W.C.P. Muir W.C.P.M. Ensign.

4 to 8 A.M. Cloudy and cool. Calm first part, light airs from E.N.E. remainder of watch. Slack water at 6:00, swung to the Ebb at 6:40. At 7:20 sent down Topgallant yards, bent light sails, crossed Topgallant and Royal yards and bent the gear. Aneroid Barometer 30.28.

W.M. Irwin W.M.I. Lieut

8 A.M. to Meridian. Clear and pleasant. Light variable airs and calms Ebb tide during watch. At 9:30 called "all hands to muster" and read "Articles for better Government of Navy" and general orders. Mustered crew. Aneroid 30.24.

Wainwright Kellogg WK Lieut

Meridian to 4 P.M. Fair and pleasant. Light S.E. winds. Falling Barometer. Slack water at 12:40. Finished swinging to flood at 1:35. At 12:30 started fires under 6 boilers. At 2:00 called "unmoor ship" Hove up, catted, and fished port anchor, and hove short on starboard cable. At 3:47 hove up starboard anchor and stood out of Canton harbor under direction of Pilot. Aneroid at 4 P.M. 30.22.

W.C.P. Muir W.C.P.M. Ensign.

4 to 8 P.M. Weather clear and pleasant. Light airs from Sd and Ed. Barometer steady. Lowered Whale-boat at 4:00 to pick up ships spy glass dropped overboard by accident. Instructed Cox.n of boat to follow ship. Steamed down river under direction of pilot. and after passing barrier stopped engines and laid to to await return of boat. Aneroid at end of watch 30.18.

C.P. Rees Lieut.

6 to 8 P.M. Pleasant weather. Light breeze from S.E. by E. At 6:15 the Whale boat returned and was hoisted: continued course down the river under guidance of the pilot. Steam 49.5. Rev's 43.7. Aneroid 30.21.

W.M. Irwin W.M.I. Lieut

8 P.M. to Midnight. Clear and pleasant. Light airs from South. At 8:15 anchored with starboard anchor in five fathoms of water, and veered to 25 fathoms. Second bar Pagoda bore S.W. by W. Banked fires. Ebb tide during watch. Aneroid 30.22.

Wainwright Kellogg WK Lieut.

Moon l mid Examined and found to be correct.
Dec. 15° 05' 45 N.
Phase. New moon

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex". 3d Rate, 6 Guns,

18 Making passage from Canton, to Hong Kong. China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Flood		S. S. E	Calm	0		3010	67	67	65		bc	Cir Cum	7	S	
2	"		"	"	0		3010	67	67	65		"	"	8	"	
3	"		"	"	0		3008	66	66	64		"	"	8	"	
4	"		"	"	0		3008	66	66	64		"	"	7	"	
Standing down Canton River				S. S. E.	1		3008	66	66	64		"	"	7	"	
6	"		"	"	1		3008	66	66	64		"	"	2	"	
7	"		"	"	1		3008	67	66	64		"	"	3	"	
8	"		"	"	1		3008	67	66	64		bcf	"	2	"	
9	"		"	"	1		3014	66	65	64		ocf	"	0	"	
10	"		"	West	1		3014	66	66	65		"	"	0	"	
11	"		"	"	2		3014	67	68	66		bcf	"	3	"	
Noon.	"		"	"	2		3012	67	70	67		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the .

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1950 "

Coal consumed during the preceding 24 hours 11 tons 360 lbs.

Coal remaining on hand at Noon 76 " 1140 "

P. M.																
Moored			W by N	W by N.	2		3008	69	70	66		bc	Cir Cum	7	S	
2	"		"	"	2		3008	70	71	66		"	"	7	"	
3	"		"	"	3		3006	70	70	65		"	"	7	"	
4	"		"	"	3		3005	70	70	65		"	"	7	"	
5	"		"	"	3		3006	70	69	64		"	"	7	"	
6	"		"	"	3		3005	70	67	63		"	"	6	"	
7	"		"	"	2		3005	70	67	63		"	"	4	"	
8	"		N. W. by N.	Calm	0		3009	70	69	64		"	"	4	"	
9	"		"	W by N	1		3011	70	69	64		"	"	5	"	
10	"		N. E	"	1		3013	69	69	63		"	"	5	"	
11	"		"	"	1		3015	69	68	62		bcp	Cum & Nimb	2	"	
Mid.	"		"	"	1		3015	69	68	62		bc	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander. A. H. McCormick. , U. S. Navy,

Monday. March 3rd , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commencing and until 4 A.M. Weather clear and pleasant. Calm. Barometer steady. Cirro cumulus clouds. Flood tide made at 12:15 and we finished swinging to it at 12:30. Spread fires at 3.00.

Hugh Rodman, HR Lieut

From 4 to 8 A.M. Weather partly cloudy and pleasant. Light airs from S.S.E. Barometer steady. At 4:02. called all hands up anchor, got under way at 4:15. and steamed down the river bound for Hong Kong under direction of pilot. Aneroid at end of watch 30:25. Steam Pressure 50. Revolutions 42.

Lieut.

8 A.M. to Meridian. Cloudy and misty. Moderate breeze from West. Inspected at quarters at 9:15. exercised 1st and 3rd Divisions at single sticks,- and 2nd Division at small arms. Steaming down the river under guidance of the pilot. Hong Kong in sight at close of watch. Aneroid Barometer at end of watch 30.16. Steam 50.8. Revs 42.5.

W.M. Irwin wmI Lieut

Meridian to 4 P.M. Clear and pleasant. Light to moderate breeze from W by N. Steaming down Canton River in charge of Pilot. At 12:25. called all hands and at 12:40. moored ship in Hong Kong harbor, 30 fathoms on both chains, 5 fathoms water. bearings* Received official visits from English, Russian, Portuguese, French, German, and Italian Men-of-war. At 12:10. exchanged numbers with U.S.S. "Monocacy". At 12:15. made signal (Inter) 1211;- Monocacy answered 904 At 3:00 made signal (Inter.) 3009. "Monocacy" answered 904. Ebb tide during watch Aneroid 30.14.

Wainwright Kellogg WK Lieut

4 to 8 P.M. Pleasant weather. Moderate breeze from W by N. Ebb tide Made usual preparations for coaling ship. Lowered smoke-stack Aneroid Barometer 30.21.

W.M. Irwin wmI Lieut

8 P.M. to Midnight. Clear and pleasant. greater part of watch. Light drizzling rain at 11:00. Light variable airs. Slack water at 9:00 and at 10.00 finished swinging to flood. Aneroid 30.22.

Wainwright Kellogg WK Lieut

*

Moon L mid Examined and found to be correct.
Dec 17° 24′ 52″ N
Phase. New moon.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Hong Kong. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			E by N	Calm	0		3013	67	67	62		bc	circum	2	S	
2	〃		N. W.	E. N. E	1-3		3012	67	67	62		bcq	〃	2	〃	
3	〃		E. N. E	〃	2-4		3012	67	65	60		〃	〃	4	〃	
4	〃		〃	〃	2-4		3012	67	65	60		〃	〃	1	〃	
5	〃		〃	〃	3-5		3012	65	64	61		〃	cum & nimb	4	〃	
6	〃		〃	〃	3-5		3015	66	62	59		〃	〃	3	〃	
7	〃		〃	〃	3-5		3018	65	62	59		〃	〃	2	〃	
8	〃		〃	〃	3		3020	65	63	59		bc	circum & nimb	4	〃	
9	〃		〃	〃	3		3022	66	64	59		〃	〃	2	〃	
10	〃		〃	〃	3		3023	67	64	59		〃	〃	2	〃	
11	〃		〃	〃	3		3023	67	64	59		〃	〃	2	〃	
Noon.	〃		〃	〃	3		3023	67	64	59		〃	〃	2	〃	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *350* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1600* "

Coal consumed during the preceding 24 hours *28* tons *480* lbs.

Coal remaining on hand at Noon *150* " *1780* "

P. M.																
Anchored			E by N	East	2-4		3017	68	64	60		bcq	circum & nimb	2	S	
2	〃		〃	〃	2-4		3013	68	63	59		〃	〃	5	〃	
3	〃		〃	〃	3-5		3010	68	63	59		〃	circum	5	〃	
4	〃		〃	〃	3-5		3010	67	63	59		〃	〃	3	〃	
5	〃		〃	E. S. E	2-4		3010	67	63	59		〃	〃	2	〃	
6	〃		W. N. W.	〃	2		3010	67	63	59		〃	〃	2	〃	
7	〃		〃	〃	2		3010	67	63	59		bc	〃	1	〃	
8	〃		N. E.	E. N. E	3		3010	67	63	59		oc	〃	0	〃	
9	〃		E. N. E.	〃	3		3018	67	61	57		〃	〃	0	〃	
10	〃		〃	〃	2-4		3018	66	61	57		ocq	〃	0	〃	
11	〃		〃	〃	1-3		3018	66	61	57		〃	〃	0	〃	
Mid.	〃		〃	〃	1-3		3018	66	61	57		〃	〃	0	〃	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday March 4th, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy with frequent squalls. Barometer falling slowly. Slack water at 2:30. Ship riding to wind latter part of watch. Aneroid at end of watch 30.22. Clear hawse.

W. C. P. Muir Ensign

4 to 8 A.M. Cloudy and cool. Fresh breeze with frequent squalls from E.N.E. Commenced coaling ship at 6.40; one lighter on each side. At 7.00 "Monocacy" made signal "all blue" Aneroid Barometer 30.20. At 7.40 "Monocacy" got underway and left the harbor for Canton.

W. M. Irwin Lieut

8 A.M. to Meridian. Clear and pleasant. Moderate breeze from E.N.E. At 9.30 mustered at quarters. The following named men were absent without leave viz: John Hunter (Sea) Thomas Noon (2.c.F.) H Gilbert (S.M.M.) John Kennedy (2.c.M) C. A. Lindner (O.S) John Sullivan (Pvt. M) Thos. Smith (Lds) Peter Cannon (C.T.) W. N. Lavelle (Pvt. M) John McCann (2 c F) John Henry (C.T.) H McCaffrey (C.A.G.) John McMullin (2.c.F.) T. J. Markey (Pvt. M) John Hempsey (Pvt M) Henry Cader (C.M) And August Buman (S.C.) Sent coal lighter away from ship as the coal was of inferior quality. Commenced coaling again at 12.00. Received official visit from Captain of English Flag ship. Comdg Officer paid official visits to Vice Admiral Dowell on board "Vigilant" Vice Admiral Willes H.M.S. "Audacious" Admiral Meyer French Flagship "Victoreuse" English Commodore H.M.S. "Victor Emanuel" Admiral Von de Gotz and German Commodore (Stosch) Italian Ship Christopher Colombo, Russian Corvette and Portuguese transport Africa. German Admiral Von de Gotz hauled down pennant. Aneroid 30.30.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Fair weather. Moderate to fresh winds from East. Moderate sea. Comdg Officer paid official visits on shore. Received official visits from Comdg officers of H.M.S. "Fly" and Italian war vessel "Christopher Colombo." Aneroid at 4 P.M. 30.24.

W. C. P. Muir Ensign

4 to 8 P.M. Clear and pleasant. Light breeze from E.S.E. Finished coaling ship at 6.30. Received on board in Equipment Department 102½ tons of coal. Received a visit from Comdg Officer French Gunboat "Lutin" Aneroid 30.28. Riding to Ebb greater part of watch.

Wainwright Kellogg Lieut.

8 P.M. to Midnight. Overcast and squally. Moderate to fresh E.N.E. winds. Steady Barometer. Riding to flood. Aneroid at end of watch 30.31. Clear hawse.

W. C. P. Muir Ensign

Moon C mid Examined and found to be correct.
Dec. 18°38'07" N
Phase. 1st Qr.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" . 3d Rate, 6 Guns,

Anchored off Hong Kong. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			E.N.E	E.N.E.	4		3018	65	60	58		oc	Cir Cum Cum Strat	0	S	
2	"		"	"	4		3017	65	60	58		"	"	0	"	
3	"		"	"	4-5		3016	65	60	58		ocq	"	0	"	
4	"		"	"	4-5		3016	65	60	58		"	"	0	"	
5	"		"	"	2-4		3013	64	60	57		"	"	0	"	
6	"		"	"	2-4		3013	64	60	57		"	"	0	"	
7	"		N.N.E	East	2		3013	64	60	57		"	"	0	"	
8	"		"	"	2		3013	64	60	57		"	"	0	"	
9	"		E.N.E	E.N.E	3		3016	64	60	58		bc	Cum Strat	1	"	
10	"		"	"	3		3018	64	60	58		"	"	2	"	
11	"		"	East	3		3015	63	60	58		"	"	1	"	
Noon.	"		"	"	3		3014	63	60	58		"	"	1	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ' "	
Longitude by D. R. at Noon	° ' "	
Latitude by Observations at Noon ☉	° ' "	
Longitude by Chronometer from Forenoon Observations ☉	° ' "	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	° ' "	
Variation of the Compass by Azimuth ☉ observed at	° ' "	
Water expended during the preceding 24 hours	350 gallons.	
Water during the preceding 24 hours	"	
Water remaining on hand fit for use at Noon	1250 "	
Coal consumed during the preceding 24 hours	tons 400 lbs.	
Coal remaining on hand at Noon	150 " 1380 "	

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
Anchored			E.N.E	E.N.E.	5		30.11	63	61	58		bc	cir cum and cum	1	S	
2	"		"	"	5		30.08	63	61	58		"	"	1	"	
3	"		"	"	5		3006	63	61	58		oc	"	0	"	
4	"		"	"	4		3006	63	61	58		"	"	0	"	
5	"		"	"	3		3002	63	60	58		"	Cum Strat	0	"	
6	"		"	"	3		3002	63	60	58		"	"	0	"	
7	"		S.E.	"	4		3002	63	61	59		"	"	0	"	
8	"		"	"	3		3002	63	62	59		"	"	0	"	
9	"		"	"	3		3001	63	62	58		ocd	"	0	"	
10	"		N.E.	N.E.	2		3001	63	62	59		"	"	0	"	
11	"		East	East	4		3001	63	62	59		"	"	0	"	
Mid.	"		"	E.S.E.	3		3001	63	62	59		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ☉	° ' "
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick. , U. S. Navy,
Wednesday, March 5th , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commencing and until 4 A.M. Weather overcast and in latter part of watch squally. Breeze moderate to fresh from E.N.E. Barometer falling. Aneroid Barometer 30.28.

Karl Rohrer Lieut.

4 to 8 A.M. Overcast with light to moderate E.N.E. winds blowing in squalls. Steady Barometer. Aneroid at end of watch 30.26.

Wainwright Kellogg Lieut.

8 A.M. to Meridian. Generally cloudy. Moderate E.N.E. and Easterly winds. Falling Barometer. German Commodore put to sea in German war vessel "Leipzig" Received official visits from Comd'g officers of Russian war vessel, Italian war vessel "Christofero Colombo" French vessel Victorieuse, and H.M.S. "Victor Emmanuel" and "Fly" Comd'g officer paid official visits to following war vessels French: "Duguay-Trouin" "Triomphante" "Volta" "Lutin" and English ships "Cleopatra" "Swift" and "Fly". At 8 A.M. a salute of 13 guns was fired by H.M.S. "Audacious" Russian Corvette, French, and German Flagships with English flag at fore. The "Audacious" returned the salutes of the other ships with their respective flags at fore. Portuguese war ship left port. Aneroid at end of watch 30.28.

W. C. P. Muir Ensign.

Meridian to 4 P.M. Weather pleasant. Fresh breeze from E.N.E. Barometer falling. The German Frigate "Leipzig" came in and moored off our port beam. Received on board in Equipment Department one half cord of wood, and two barrels of lime. The German Commodore paid an official visit to the ship. Aneroid Barometer 30.17. Received fresh provisions on board for crew.

Karl Rohrer Lieut

4 to 8 P.M. Overcast. Gentle E.N.E. winds. Steady Barometer. Received official visits from Comd'g officers of French ships "Triomphante" and "Lutin" Aneroid at end of watch 30.22.

W. C. P. Muir Ensign.

8 P.M. to Midnight. Overcast. Light drizzling rain. Breeze light to moderate in force and varying in direction from N.E. to E.S.E. Barometer steady. John McCann (2 c F) returned to the ship. Aneroid Barometer 30.21

Karl Rohrer, Lieut

Moon (mid Examined and found to be correct.
Dec. 18° 42' 10" N
Phase. 1st Qr.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" . 3d Rate, 6 Guns,

Anchored off Hong Kong. China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			E.N.E	E.N.E	4.5		3006	63	61	59		ocdq	Cum&himl	0	S	
2	"		"	"	4.5		3005	63	61	59		"	"	0	"	
3	"		"	"	3-5		3004	63	60	58		ocq	"	0	"	
4	"		"	"	3-5		3004	63	60	58		"	"	0	"	
5	"		"	"	3-5		3002	63	61	59		"	"	0	"	
6	"		"	"	2		3002	63	61	59		ocd	"	0	"	
7	"		"	"	2		3002	63	61	59		"	"	0	"	
8	"		"	"	3		3002	63	61	59		"	"	0	"	
9	"		"	"	4		3005	63	62	61		"	"	0	"	
10	"		"	"	3		3004	67	62	61		"	"	0	"	
11	"		"	"	5		3002	67	62	61		bc	"	1	"	
Noon.	"		"	"	5		3002	67	62	61		"	"	1	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 950 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 150 " 980 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
Anchored			E.N.E.	E.N.E.	4.5		30 00	68	65	64		bcq	cir cum and himl	3	S	
2	"		"	"	4.5		2997	68	68	67		"	"	3	"	
3	"		"	S. E.	3		2994	68	70	68		bc	"	4	"	
4	"		"	"	3		2994	68	70	68		"	"	2	"	
5	"		"	S.S.W.	3-5		2994	68	70	68		bcq	"	2	"	
6	"		East	N.N.E	3		2994	69	69	67		bcm	cir cum and Cum	2	"	
7	"		"	N.E	4-6		2992	69	65	64		bcqd	"	1	"	
8	"		"	"	4-6		2992	69	65	64		"	"	1	"	
9	"		"	"	2-4		2993	67	66	64		"	"	2	"	
10	"		"	"	4-6		2995	67	64	63		"	"	1	"	
11	"		"	"	1-3		2996	66	65	63		"	"	1	"	
Mid.	"		"	"	1-3		2996	66	65	63		ochq	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday March 6th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and damp. Gentle breeze from E.N.E. with occasional squalls. Barometer falling. Aneroid at end of watch 30.18.

Lieut

4 to 8 A.M. Cloudy and threatening. Light E.N.E. winds. Barometer steady. Aneroid at end of watch 30.18.

W. C. P. Muir Ensign.

8 A.M. to Meridian. Weather overcast but not unpleasant. Barometer falling. Gentle to fresh breeze from E.N.E. At 9:30 mustered and inspected crew at quarters, and had divisional drill. The following named men are absent from the ship without leave, and an offer of reward of ($10.00) ten dollars each, has been sent on shore for their apprehension and delivery on board: T. J. Mackey (P.M) J Hempsey (P.M) F. Zepelius. (P.M) C Carter. (C.T.) F. B. Barnes. (O.S) R. E. Henry (O.S) H. Holst. (Lds) Wm Glenny (Sea) Wm Toole (2 C F) Jas Kelly (Sea) R. Mackey (2c M) W. C. Callip (O.S.) J. W. Schluter (Lds) H. Palmer (Corpl) Four of the shipwrecked crew of the American Ship Rainier were on board and were examined by the Captain. Aneroid Barometer 30.15.

Karl Rohrer, Lieut.

Meridian to 4 P.M. Weather cloudy and pleasant. Wind light variable and squally. Barometer falling. Received for ships use 2 ps 1" Pine 57 ft 1 p 1" Teak. 4 ps 2" Teak 19 1/2 ft. Fredrick Zepelius (Pvt) and Robt Henry (O.S) Harry Palmer (Corpl) (absent without leave) returned to the ship. A reward of Ten Dollars each was paid for T. J. Mackey (Pvt) John Hempsey (Pvt) and Richard Mackey (2c M) brought on board by police. Aneroid at end of watch 30.05.

Lieut

4 to 8 P.M. Weather somewhat squally but not unpleasant. Breeze gentle to fresh in squalls from S.S.W. to N.E. Barometer falling. At 4:45 mustered at quarters and found Chas. Carter (C.T.) and John W. Schluter (Lds) absent without leave. The Hong Kong Police brought on board Wm Glenny (Sea) Jas Kelly (Sea) W. C. Callip (O.S) Harry Holst (Lds) Wm Toole (2 C F) and F. B. Barnes (O.S) and received the offered reward of Ten Dollars ($10.00) for each man. Sent down royal and topgallant yards. Aneroid Barometer 30.10.

Karl Rohrer, Lieut.

8 P.M. to Midnight. Weather cloudy and pleasant. Light breeze from N.E. Barometer rising. Chas. Carter (C.T.) returned to the ship. Aneroid at end of watch 30.10.

Lieut.

Moon l mid Examined and found to be correct.
Dec. 17° 39' N.
Phase. 1st Qr.

W. H. Parker
Lieut and Navigator.

LOG of the UNITED STATES *Steamer "Essex."*, *3d* Rate, *6* Guns,

Anchored off Hong Kong. China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			E.N.E	North	2		2996	66	66	65		oclt	cum and cir cum	0	S	
2	〃		〃	S.W.	2		2996	66	66	65		ocrlt	Nimb	0	〃	
3	〃		〃	〃	2		2994	67	66	65		〃	〃	0	〃	
4	〃			〃	2		2994	67	67	66		〃	〃	0	〃	
5	〃		〃	N.W.	3		2994	67	66	65		〃	〃	0	〃	
6	〃		〃	〃	3		2994	67	66	65		bc	cir cum and Nimb	2	〃	
7	〃		North	N by W	2		2998	67	66	65		〃	〃	1	〃	
8	〃		〃	〃	2		3002	63	65	63		〃	Cum & Nimb	1	〃	
9	〃		〃	〃	1		3002	63	65	63		〃	〃	1	〃	
10	〃		West	West	1		3003	65	66	63		〃	Cir Cum	4	〃	
11	〃		〃	〃	1		3004	69	67	63		〃	〃	6	〃	
Noon.	〃		〃	〃	1		3004	69	67	63		〃	〃	6	〃	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ☉	° ′ ″	
Longitude by Chronometer from Forenoon Observations ☉	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ☉ observed at	° ′ ″	
Water expended during the preceding 24 hours	300	gallons.
Water during the preceding 24 hours		〃
Water remaining on hand fit for use at Noon	650	〃
Coal consumed during the preceding 24 hours	tons 2000	lbs.
Coal remaining on hand at Noon	149 〃 240	〃

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
Anchored			N.N.E	Calm	0		3003	69	68	63		bc	cir cum	2	S	
2	〃		N.W. by N	W.N.W.	2		3003	70	68	63		〃	〃	3	〃	
3	〃		N.W.	〃	2		2998	68	66	62		〃	〃	4	〃	
4	〃		〃	〃	2		2998	68	66	62		〃	〃	1	〃	
5	〃		N.N.E	North	1		3000	68	66	62		〃	cir cum and strat	2	〃	
6	〃		〃	〃	1		3000	68	66	61		〃	〃	2	〃	
7	〃		〃	〃	1		3002	67	66	59		〃	〃	1	〃	
8	〃		〃	N.E	2		3004	66	66	60		〃	〃	1	〃	
9	〃		North	N.N.E	2		3007	66	66	60		〃	cum strat and Nimb	1	〃	
10	〃		〃	〃	1		3009	67	66	60		〃	〃	1	〃	
11	〃		W.N.W.	Calm	0		3010	66	65	59		〃	cir cum and Nimb	3	〃	
Mid.	〃		〃	〃	0		3012	66	65	59		〃	〃	4	〃	

Longitude by Chronometer from Afternoon Observations ☉	° ′ ″
Longitude by Chronometer from Observations *	° ′ ″
Variation of the Compass by Amplitude observed at sunset	° ′ ″
Variation of the Compass by at	° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Friday March 7th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast with heavy rain, thunder and lightening, last three hours. Light breeze from North first hour hauling to S.W. Aneroid Barometer 30.10

R. O. Bitler Ensign.

4 to 8 A.M. Weather overcast and rainy in last part of watch. Light to fresh breeze from N by W. to N.W. Barometer rising. An American barkentine went to sea. The British Gunboat "Swift" went to sea. A French Mail Steamer came in and took a buoy. Crossed topgallant yards. Aneroid Barometer 30.15.

Lieut

8 A.M. to Meridian. Weather cloudy first part of watch – afterwards clear and pleasant. Barometer rising. Loosed sail at 9:15. Exercised at general quarters at 9:15 Rigged torpedo booms and exploded exercise torpedos. Received the following stores in Engineers Department viz: 500 lbs Blacksmith coal, 50 galls Sea oil, 12 ½ oz. Flat lamp-wicks, 5 lbs Flat lamp wick balls, 3 bbls Lime, 5 lbs Black Lead, 3 lbs Rotten stone, 2 lbs Chalk, 5 galls Boiled oil, 1. 2 foot Rule, 1 qt Ink. 1 quire blotting paper, in Equipment Department 2 coils 3½ in Manilla. 2 coils 3¼ Manilla; in Construction Department, 5 lbs 6d Copper nails 5 lbs 6d Iron nails, 10 lbs 8d Iron nails, 25 lbs Oakum, 1 gross Brass screws 5/8, 1 Gross Brass screws 7/8, 1 Gross Brass screws 1/4, 1 lb Copper tacks 5/8, 1 lb copper tacks 7/8. Served out clean hammocks. Comdg Officer left the ship to pay official visits at 10:10 and returned at 10:30. The Comdg Officer of H.M.S. "Cleopatra" visited the ship officially at 10:45. His Excellency the Governor of Hong Kong visited several ships in the harbor, and was saluted by the English and German Flagships with 17 guns. Aneroid at end of watch 30.16.

Lieut

Meridian to 4 P.M. Cloudy and pleasant. Calm first hour; light breeze from W.N.W. last three hours. At 1:00 furled sail. Comdg Officer left ship to pay official visit on Governor of Hong Kong and General Comdg British Forces. Received official visits from Comdg Officer German Ship "Leipzig" and from several army officers from barracks; also from several German officers from "Leipzig". W. C. Callip (O.S.) Harry Holst (Lds) and Ah Chee (Lds) were to day discharged from this vessel, and from the Naval Service at their own requests. Aneroid Barometer 30.11.

R. O. Bitler Ensign.

4 to 8 P.M. Weather cloudy and pleasant. Light airs from Nd. Barometer rising. Received on board for ships use 11 Bbls Flour, 5 Bbls Sugar, 4 Bbls Beans, 15 Tins Ground Coffee. Mustered at quarters at 4:45. By direction of Admiral Davis, of March 6th received on board for passage to Ujae Isld. Henry Whelan Mate of the U.S. Merchant Ship Ranier wrecked there. A French Man-of-war came in and anchored at 7.45. Aneroid 30.15.

Lieut

8 P.M. to Midnight. Cloudy and pleasant. Light N.N.E. airs falling calm last two hours. Aneroid Barometer 30.22.

R. O. Bitler Ensign.

Moon l mid Examined and found to be correct.

Dec. 15° 36' 11" N

Phase 1st Qr.

W. H. Parker

Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Hong Kong, China.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N E	Calm	0		30.12	66	64	58		bc	Cir Cum	2	S.	
2	"		"	N E	1		30.12	65	63	57		"	Cir. Cum	2	"	
3	"		"	"	2		30.12	65	62	57		"	"	2	"	
4	"		"	"	2		30.12	64	63	57		"	"	4	"	
5	"		E N E.	"	1		30.10	64	63	57		"	"	2	"	
6	"		"	"	2		30.12	64	62	57		"	"	1	"	
7	"		"	"	1		30.15	64	62	57		"	"	1	"	
8	"		N E	"	1		30.15	64	62	57		oc	Cum & Cir Cum	0	"	
9	"		N x W.	N.	1		30.20	63	60	56		bc	"	4	"	
10	"		"	Calm	0		30.22	63	61	56		"	"	2	"	
11	"		E. N. E.	E N E	1		30.22	64	62	57		"	"	6	"	
Noon.	"		"	"	1		30.20	64	64	58		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 100 "

Water remaining on hand fit for use at Noon 450 "

Coal consumed during the preceding 24 hours tons 1600 lbs.

Coal remaining on hand at Noon 149 " 1220 "

P. M.																
1	"		E N E.	N. E.	1		30.20	64	64	58		bc.	Cir Cum	2	S.	
2	"		"	"	1		30.18	64	64	58		"	"	2	"	
3	"		East	East	2		30.16	65	63	57		"	"	2	"	
4	"		"	"	2		30.14	65	63	57		"	"	2	"	
5	"		E N E.	"	2		30.14	64	61	57		"	"	3	"	
6	"		"	"	2		30.14	66	61	57		"	"	4	"	
7	"		"	"	2		30.14	67	61	58		"	"	2	"	
8	"		"	"	2		30.14	66	61	58		"	"	3	"	
9	"		"	"	4-5		30.18	66	61	59		bcq	Cir. cum & nimb	1	"	
10	"		N. W.	E N E.	4-5		30.20	65	61	58		"	"	2	"	
11	"		"	"	4-5		30.20	65	61	58		"	"	2	"	
Mid.	"		"	"	4-5		30.20	65	60	58		"	"	3	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday, March 8th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4. A.M. Cloudy and cool, Calm first hour, Gentle breeze from N. E. remainder, Aneroid barometer 30.28.
W.M.Irwin
WMI Lieut

4 to 8. A.M. Weather cloudy and pleasant, Light airs from Nd and Ed. Barometer rising. Started fires for distilling at 4.00: commenced distilling at 7.30. Aneroid at end of watch 30.32
C.P. Rees Lieut

8. A.M. to Meridian. Cloudy and pleasant, clearing up latter part of watch. Light northerly airs first hour, falling calm second hour, then light E N E airs. At 9.30 mustered at quarters: F. A. Smith (O.S.) absent without leave. Commanding Officer left ship to pay official visits. Sent officer to board French Flagship "Galissonnière". Received official visit from officer from that ship in return. Commanding Officer of Italian ship "Christofo Colombo" paid a call on board this ship. At 8. A.M. salutes were exchanged with French Flagship "Galissonnière" and ships in harbor, and with battery on shore. Aneroid barometer 30.28. By order of Commanding Officer placed John Clunie (O.S.) in solitary confinement on bread and water for five days for attempting to smuggle liquor on board. At 9.00 loosed and at 11.30 furled sail and sent down royal yards.
R.O. Bitler Ensign

Meridian to 4 P.M. Cloudy and cool. Light breeze from N.E. hauling to East; Commanding Officer returned from making official calls on the Governor, the General commanding the forces, and Lt. Col. Graves of the Buffs. Recd on board in Paymaster's Department for use of crew 68 bags of bread. At 3.00 British Flagship fired a salute of 13 guns with French flag at the fore. Received an official visit from Rear Admiral Lespès of the French Navy. Aneroid barometer 30.26.
W.M.Irwin
WMI Lieut

4 to 8 P.M. Cloudy and pleasant with light easterly breezes. At 4.30 mustered at quarters: F. A. Smith (O.S.) absent without leave. H.M.S. Swift came in from Wd and anchored. French Steamer Anadie came in. Sent boat for Lieut Nichols who was a passenger on board, and who had instructions from Admiral regarding this vessel. Received on board in Pay Dept. 142 lbs of fresh beef and vegetables, and 114 loaves of bread. Received on board P. McKeon (O.S.) he having been transferred to this vessel from U.S.F.S. "Richmond." Aneroid barometer 30.30.
R.O. Bitler
Ensign.

8 P.M. to Midnight. Cloudy and cool. Fresh breeze from East hauling to E N E. Barometer steady. Distilling. Aneroid bar. 30.33.
W.M.Irwin Lieut

Moon's Decl.
Dec 12° 44' 10" N.
Phase. 1st Quarter

Examined and found to be correct.

W. H. Parker
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchord off Hong Kong China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Anchored		ENE.	East	2-4		30.22	63	60	56		bcz	Cir Cum	2	S.	
2	"		"	"	2-4		30.22	63	60	54		"	Cir Cum & Cumuls	2	"	
3	"		"	"	2-4		30.21	62	59	54		"	"	1	"	
4	"		"	"	2-4		30.20	62	59	55		ocgd	"	0	"	
5	"		"	"	2-4		30.20	62	59	55		ocgd	"	0	"	
6	"		"	"	2-4		30.20	62	59	55		ocgd	"	0	"	
7	"		"	"	2-4		30.20	62	59	55		"	"	0	"	
8	"		"	"	2		30.23	62	59	55		ocd	"	0	"	
9	"		"	"	2		30.26	63	59	53		bc	Cir Cum Str.	3	"	
10	"		"	"	2		30.28	63	59	54		"	"	3	"	
11	"		N by E	NNE.	3		30.28	63	58	54		"	"	2	"	
Noon.	"		"	East	3		30.28	62	58	54		"	"	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 350 gallons.

Water, distilled during the preceding 24 hours 2950 "

Water remaining on hand fit for use at Noon 3050 "

Coal consumed during the preceding 24 hours 2 tons 620 lbs.

Coal remaining on hand at Noon 147 " 60 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		NE	ENE.	3		30.28	64	60	54		bc	Cir cum & Cum	1	S	
2	"		"	"	3		30.24	65	60	54		"	"	1	"	
3	"		"	"	3		30.23	65	61	55		"	"	1	"	
4	"		"	"	3		30.22	65	61	55		oc	"	0	"	
5	"		"	"	3		30.20	65	60	54		ocd	"	0	"	
6	"		ENE.	"	3		30.22	65	60	55		"	"	0	"	
7	"		"	"	3		30.22	64	59	55		"	"	0	"	
8	"		"	"	3		30.22	65	59	55		"	"	0	"	
9	"		"	East	3		30.24	65	59	56		bc	"	2	"	
10	"		North	"	3		30.26	65	59	56		"	"	2	"	
11	"		"	"	3		30.26	64	59	56		"	"	3	"	
Mid.	"		WNW.	"	3		30.26	62	59	56		"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday, March 9th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Drizzling rain last hour of watch. Moderate breeze with strong squalls from East. Distilling. Aneroid 30.32.
Wainwright Kellogg
WK Lieut

4 to 8 A.M. Overcast, squally with rain first hour. Wind from East, light to moderate in force. Mitsu Bishi Steamer "Takachio Maru" came in and anchored; sent boat and found that she had provisions for this vessel on board. At 5.15 stopped distilling and banked fires. Aneroid barometer 30.37.
R.O. Bitler Ensign.

8 A.M. to Meridian. Cloudy. Moderate breeze from East hauling to N&E and freshening. Went to quarters at 9.30: Commanding Officer inspected the ship and crew. Aneroid barometer 30.40. John Flaherty, (1st Fire) was brought on board by the police and a reward of ten Dollars was paid for his apprehension and delivery on board.
W.W. Brown Lieut

Meridian to 4 P.M. Cloudy. Moderate breeze from E&E. Received in Pay Department from store house in Nagasaki the following stores; viz, 10 bbls Pork, 6 bbls Beef, 14 boxes preserved meat, 10 boxes tobacco, 8 boxes soap, 2 boxes shoe brushes, one box whisp brooms, 1 bale blankets 1 bale drawers, 4 bales socks. 1 bale mattresses, 10 boxes candles. Aneroid 30.34.
Wainwright Kellogg
WK Lieut

4 to 8 P.M. Overcast and cloudy with light drizzling rain at intervals. Moderate breeze from E&E. Barometer steady. Aneroid bar 30.36.
W.W. Brown Lieut

8 P.M. to Midnight. Cloudy. Moderate breeze from East, freshening latter part of watch. Aneroid 30.38. H. Lake. "P.M" was placed in double irons for safe keeping.
Wainwright Kellogg
WK Lieut

Moon l. mid
Dec. 9° 15' 49" N
Phase. 1st Qr

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Hong Kong. China

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N.W.	N.E.	3.5		30.25	62	58	56		o.c. g.	Cum & Nimb.	0	M.	
2	"		"	"	4-6		30.25	62	58	56		"	"	0	"	
3	"		"	"	4-6		30.25	62	58	56		"	"	0	"	
4	"		"	"	4-6		30.25	62	58	56		"	"	0	"	
5	"		E×N.	E×N.	4-6		30.25	62	58	56		"	"	0	"	
6	"		"	"	4-6		30.25	62	58	56		"	"	0	"	
7	"		"	"	4-6		30.26	62	59	56		"	"	0	"	
8	"		"	"	4-6		30.27	62	59	56		"	"	0	"	
9	"		ENE.	ENE.	4		30.30	62	60	57		o c d.	Cum strat nimbus	0	S.	
10	"		"	"	4		30.31	62	60	57		"	"	0	"	
11	"		"	"	4		30.31	62	60	57		o c	"	0	"	
Noon.	"		NNW	"	4		30.29	62	60	57		"	"	0	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ' "	
Longitude by D. R. at Noon	° ' "	
Latitude by Observations at Noon ⊙	° ' "	
Longitude by Chronometer from Forenoon Observations ⊙	° ' "	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "	
Variation of the Compass by Azimuth ⊙ observed at	° ' "	
Water expended during the preceding 24 hours	350	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	2700	"
Coal consumed during the preceding 24 hours	1 tons 1760	lbs.
Coal remaining on hand at Noon	145 " 1080	"

1073.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P.M. Standing out of Hong Kong Harbor			NNW.	ENE	5		30.27	60	60	57		o c	Cum strat nimbus	0	S	
2	3	2	E	"	5		30.25	60	60	57		"	"	0	"	Steaming
3	6	5	"	"	5		30.20	62	60	57	62	"	"	0	"	
4	6	5	"	"	5		30.18	62	60	58	62	"	"	0	"	
5	6	4	"	"	5		30.17	62	61	58	62	"	"	0	"	
6	6	4	"	"	5		30.18	63	61	58	61	o c d	"	0	"	
7	6	4	"	"	5		30.19	64	62	60	61	"	"	0	"	
N 22°14' E 8	6	6	"	"	5		30.20	66	63	60	61	"	"	0	"	
114°56' 9	0 6	4 0	ENE.	"	5		30.20	65	63	60	66	o c	"	0	"	
22-154 115° E 10	6	0	"	"	5		30.20	65	63	60	66	"	"	0	"	
11	6	0	ENE ½ E.	"	5		30.18	64	63	60	66	"	"	0	"	
Mid.	5	6	"	"	5		30.18	64	63	60	66	"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙	° ' "
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Monday March 10th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast with moderate to fresh N.E. winds in squalls. Moderate sea. Steady bar. Aneroid at end of watch 30.38.

W.C.P. Muir Ensign

4 to 8 A.M. Overcast cloudy and squally with light drizzling rain. Strong breeze from E by N. slightly moderating latter part. Bent main-trysail and fore topmast staysail. Secured both launches for sea, doubled topsail sheets shifted topsail clewlines, and struck awnings below. Aneroid barometer 30.42

W.M. Irwin Lieut

8 A.M. to Meridian. Cloudy. Light occasional showers of drizzling rain. Moderate breeze with with occasional strong puffs from E.N.E. At 9.30 mustered at quarters: Fredk. Lee. (S.W.) absent without leave. Henry Gilbert (S.M. Mate) reported the expiration of his term of enlistment, and was discharged from the service by order of the Commanding Officer. Secured battery for sea. Started fires under six boilers. Crew engaged during watch getting ship ready for sea. Unbent light sails. Sent down topgalt yards, and housed topgalt. masts. Aneroid barometer 30.40.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Weather overcast and cloudy but not unpleasant. Fresh breeze from E.N.E. Barometer falling. At 12.35 called "Unmoor ship," got up stbd anchor, and at 12.45 weighed port anchor, and started ahead, Captain directing the course. Fires under six boilers, steam pressure 46 lbs, and 44.5 revolutions. At 2.34 took departure, Cape Aguilar light bearing (pc) S W ¼ W. Waglan Isld (pc) S S E ¼ E, ship heading east; Put the ship on the course East, and got the patent log over, it indicating 99.8 knots. At end of watch patent log showed 9.5 knots. Ships draft ford 13 ft 7 in, aft 15 ft 10 in. Braced the yards up by the stbd braces. At end of watch land in sight from two points forward of port beam around to two points abaft starboard beam. Aneroid barometer 30.34

Lieut

4 to 6 P.M. Weather overcast with light drizzling rain. Barometer steady. Moderate breeze from E.N.E. Mustered at quarters at 4.45. Fredk. Lee (S.W.) absent without leave, and left at Hong Kong. Steam press. 52 Revls. 47. Course E (pc) Aneroid at end of watch. 30.35.

Lieut

6 to 8 P.M. Cloudy, overcast, Light drizzling rain greater part of watch. Fresh breeze from E N E. Moderate sea, Steam 52 lbs, Revls 47. Aneroid bar 30.36

W.M. Irwin Lieut

8 P.M. to Midnight. Cloudy. Pleasant. Fresh breeze from E N E. Moderate sea. Ship pitching moderately. At 8.05 changed course to E N E, and at 10.00 to E N E ½ E. At 10.40 sighted Pinnacle Rock three points on port bow and at 11.35 it bore abeam (N N W ½ W.) distant about 2 miles. Obscured moonlight. Steaming under six boilers. Steam 46 lbs. Revls 44. Patent log at end of watch 58 8/10 miles. Aneroid 30.35 Wainwright Kellogg

W.K. Lieut

Moon l. mid

Dec 5° 24.' N

Phase, 1st Qr.

Examined and found to be correct.

W. H. Parker

Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Hong Kong, China to Nagasaki, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	4	0	ENE½E.	ENE.	5		30.18	63	62	60	67	o.c.	Cum. Cir Cum & Nimb	0	S	
2	5	2	"	"	5		30.18	63	62	60	67	"	"	0	"	
3	5	6	"	"	5		30.18	63	62	60	67	"	"	0	"	
4	5	0	"	"	5		30.18	63	61	59	67	"	"	0	"	
5	6	6	"	"	5		30.18	64	61	59	67	"	"	0	"	
6	6	0	"	"	5		30.18	63	61	59	67	"	"	0	"	
7	6	2	"	"	5		30.18	63	61	59	67	"	"	0	"	
N 22°29 E 8	6	5	"	"	5		30.18	63	61	59	67	bc	Cir Cum & Nimb	1	"	
116°09 9	4 2	2 0	NE×E¼E.	"	5		30.19	64	63	60	67	"	"	2	"	
10	6	2	"	"	4		30.19	64	63	60	67	"	Cir Cum	1	"	
11	6	2	"	NE×E	4		30.20	64	63	60	67	"	"	4	"	
Noon.	6	0	"	"	4		30.21	64	64	61	64	"	"	7	"	

Distance run by Log since preceding Noon 135 knots 7 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 22°41'00"

Longitude by D. R. at Noon 116°31'00"

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ 22°35'28"

1074. Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2400 "

Coal consumed during the preceding 24 hours 15 tons 2100 lbs.

Coal remaining on hand at Noon 129 " 1220 "

P. M.																
1	6	2	NE×E¼E	NE by E	4		30.18	64	64	61	62	b.o.	Cir & Cir Cum	7	S	
2	6	6	"	"	4		30.18	64	64	61	62	"	"	5	"	
3	6	2	"	"	4		30.17	64	64	61	62	"	"	5	"	
4	2 4	2 4	ENE½E	"	4		30.17	64	63	61	62	"	"	5	"	
5	7	5	"	"	4		30.16	64	63	61	62	"	"	3	"	
6	5	2	"	"	4		30.16	64	62	60	61	"	Cir Cum Cum Nimb	3	"	
7	6	6	"	"	4		30.18	64	62	60	61	"	"	2	"	
N 22°55' E 8	6	8	"	"	4		30.18	66	62	60	61	"	"	2	"	
117°01 9	6	6	"	"	4		30.19	65	62	60	61	"	"	1	"	
10	2 6	2 2	NE×E NE½E	"	4		30.21	65	62	60	61	o.c.	"	0	"	
11	5	8	"	NE	5		30.22	65	62	60	61	ocdm	"	0	"	
Mid.	6	0	"	"	5		30.22	65	62	60	61	"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ 116°30' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Tuesday March 11. 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and cloudy but not unpleasant. Fresh breeze from E.N.E. Barometer steady. Under steam, press. 41 lbs, and 40.5 revolutions. Aneroid barometer 30.32.

Karl Rohrer Lieut

4 to 8 A.M. Weather overcast and pleasant. Moderate breeze from ENE. Barometer steady. Steering a course ENE ½ E. A large number of fishing junks in sight. Aneroid at end of watch 30.36. Steam pressure 48. Revolutions 42. Patent-log 3.4

C.P.Rees Lieut

8 A.M. to Meridian. Pleasant weather. Moderate breeze from ENE. Smooth sea. Mustered at quarters at 9.15: exercised 1st, 2d, and 3d divisions at great guns and the Powder division at powder exercise. Steam 48 lbs. Revolutions 43. Patent-log 128.2. Aneroid barometer 30.34. At 8.40 changed course to NE by E ¼ E; Patent-log registering 108.4. By order of Comdg Officer: Harvey Lake. (P.M.) was given 15 days extra duty for overstaying liberty and being drunk and disorderly on his return on board: Henry Gilbert was reenlisted as seaman for three years under C.S.C. #2766, and rated Sailmaker's Mate from date.

W.M.Irwin Lieut.

Meridian to 4 P.M. Hazy. Pleasant. Moderate breeze from NE by E. Smooth sea. At 3.30 changed course to E.N.E. ½ E. At 3.30 stopped and got cast of lead, 17 fathoms, dark sand. Steaming under six boilers. Steam, 48. Revolutions 44. Patent-log read at change 51.7. Patent log at end of watch 54.8. Aneroid 30.32 Wainwright Kellogg Lieut

4 to 6 P.M. Weather pleasant. Hazy about the horizon. Moderate breeze from NE by E. Barometer steady. Under steam: press. 51 lbs and 48 revolutions. At 5.30 stopped, and got a cast of the deep sea lead, finding bottom at 19.5 fathoms, sand and shell. Aneroid barometer 30.34.

Karl Rohrer Lieut

6 to 8 P.M. Weather cloudy and pleasant. Moderate breeze from Nd and Ed, Barometer steady. Steering a course ENE ½ E. Aneroid at end of watch 30.38. Steam 46. Revls 52. Patent-log 9.1.

C.P.Rees Lieut

8 P.M. to Midnight. Overcast and cloudy with light drizzling rain and misty about the horizon last two hours. Moderate breeze from NE by E shifting to NE and freshening. At 9.26 sighted Lamock Island light bearing NNE (per compass) patent log registering 89.8. changed course to NE by E. At 9.31 changed course to NE ½ E. patent log recording 91.2. At 11.10 Lamock Island light bore (p.c.) N by W ½ W. At 11.40 lt bore NW by N: it bore abeam at 11.49. distant 8.8 miles. Steam 46 lbs. Revolutions 44. Aneroid barometer 30.41; Patent-log at end of watch 106.9.

W.M.Irwin Lieut

Moon l. mid Examined and found to be correct.

Dec 1° 21' 25" N.

Phase Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" . 3d Rate, 6 Guns,

Making passage from Hong Kong, China to Nagasaki, Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	6	0	NE½E	NE	5		30.25	62	60	59	60	oc	Cir Cum Cum Nimb	0	S	
2	6	4	"	"	5		30.25	62	60	59	60	"	"	0	"	
3	5	4	"	"	5		30.23	62	60	58	60	"	"	0	"	
4	5	6	"	"	5		30.23	62	59	58	60	"	"	0	"	
5	4	6	"	"	6		30.24	61	59	57	60	"	"	0	M	
6	0	5	S.W	"	6		30.24	61	58	56	59	bc	Cir Cum Cum Sty	3	"	
7	2	0	"	"	6		30.24	61	57	55	59	"	Cir Cum [illegible]	2	"	
n 23°23' E 8	2	0	"	"	6		30.26	60	57	55	59	"	"	2	"	
117°47 9	1	0	NE½E	"	6		30.28	61	58	55	59	"	"	1	R	
10	2	8	"	"	6-8		30.28	61	58	55	59	bcqh	"	1	"	
11	3	2	"	"	5-7		30.28	60	58	55	59	ocqh	"	0	"	
Noon.	3	0	"	"	5-8		30.28	60	58	55	59	"	"	0	"	

Distance run by Log since preceding Noon 119 knots 0 ~~fathoms.~~

Latitude by D. R. at Noon 23° 30' 00" 00 N

Longitude by D. R. at Noon 117° 56' 00" E

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

1074 Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2050 "

Coal consumed during the preceding 24 hours 15 tons 900 lbs.

Coal remaining on hand at Noon 114 " 320 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	2	4	NE½E	NE	5-6		30.27	60	57	54	59	ocq	Cir Cum [illegible]	0	R	
2	2	4	"	"	5-6		30.25	60	57	54	59	"	"	0	"	
3	2	4	"	"	5-6		30.24	60	57	54	59	"	"	0	"	
4	2	4	"	"	5-6		30.23	60	57	54	59	"	"	0	"	
5	3	0	"	"	5-6		30.23	60	56	53	59	"	Cir Cum Cum [illegible]	0	"	
6	3	0	"	"	5-6		30.23	60	56	53	59	"	"	0	"	
7	2	5	"	"	5-6		30.25	61	56	53	59	"	"	0	"	
n 23°48 E 8	2	5	"	"	6		30.27	61	56	53	59	"	"	0	"	
118°08 9	3	4	"	"	5-6		30.27	61	55	52	59	"	"	0	"	
10	3	4	"	"	5-6		30.28	60	55	52	59	bcq	"	1	"	
11	3	6	"	"	5-6		30.28	58	55	51	59	"	"	1	"	
Mid.	3	6	"	"	5-7		30.28	58	55	57	59	"	"	1	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Wednesday. March 10. 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A.M. Slightly hazy. Pleasant. Fresh breeze from N.E. Smooth sea. At 12.15 Damock Light bore N W by W 1/8 W; at 12.45. W N W 1/8 W. at 1.15 W 7/8 N; at 1.45 W 3/8 N; at 2.15 West. At 2.45 lost sight of light bearing W 1/2 S. Obscured moonlight. Steaming under six boilers. Steam 44 lbs. Revs 41. Patent log at end of watch 30 miles. Aneroid 30.40. Wainwright Kellogg

WK Lieut

4 to 8 A.M. Weather pleasant. Stiff breeze from N.E. At 5.10 stopped engines to set up main crank pin. Under steam, pressure 38 lbs, and 37.5 revolutions. Aneroid barometer 30.47. Commenced going ahead, again, at 8.00.

Karl Rohrer, Lieut

8 A.M. to Meridian. Weather overcast and squally. Strong breeze from N.E. Rough sea. Barometer steady. Started ahead at 8.15, and put ship on course N.E. at 8.20. Mustered at quarters at 9.15. Exercised signal class at making signals. Aneroid at end of watch 30.49. Steam pressure 45. Revolutions 39.5. Put over patent log at 12. registering 38.6.

Lieut

Meridian to 4. P.M. Overcast and cloudy. Strong breeze from N.E. Sea rough. Barometer falling slowly. Aneroid barometer 30.45. Steam 42.5 lbs. Revolutions 38.5. W. M. Irwin

WMI Lieut

4 to 6 P.M. Cloudy. Blowing a moderate gale from N.E. Moderate sea. At 4.45 mustered at quarters. Steaming under six boilers. Steam 42 lbs. Revolutions 38. Aneroid 30.46. Wainwright Kellogg

WK Lieut

6 to 8 P.M. Weather pleasant. Stiff breeze from N.E. Barometer rising. Under steam, pressure 52 lbs, and 43 revolutions. Sea rough; ship riding it easily. Aneroid barometer 30.49. At 8. patent log indicated 31.5 miles.

Karl Rohrer, Lieut

8 P.M. to Midnight. Weather overcast and squally. Strong breeze from N.E. Barometer steady. Aneroid at end of watch 30.50. Steam pressure 47.5. Revolutions 36.

R Lieut

Moon at mid. Examined and found to be correct.
Dec 2° 40' 42" S.
Phase, Full moon.

W. J. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Hong Kong China to Nagasaki Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	3	6	NE½E.	NE.	5-6		30.27	58	55	53	59	ocg	Cir cum & cumuls	0	R	
2	3	2	"	"	5-6		30.26	58	55	53	60	"	"	0	"	
3	3	0	"	"	5-7		30.25	58	55	52	60	"	"	0	"	
4	3	0	"	"	5-7		30.24	58	55	52	60	"	"	0	"	
5	3	4	"	"	5-6		30.24	57	54	51	60	"	"	0	"	
6	3	2	"	"	5-6		30.25	56	54	51	59	"	Cir cum & strat	0	"	
7	3	0	"	"	5-6		30.27	56	54	51	59	"	"	0	"	
N 23°46 E 8	3	6	"	"	5-6		30.27	56	54	51	59	"	"	0	"	
118°22 9	4	0	"	"	5		30.28	57	54	51	58	bc	Circum & cumuls	1	S	
10	4	5	"	"	5		30.28	57	54	51	58	"	"	1	"	
11	5	0	"	"	5		30.28	57	54	51	58	"	"	1	"	
Noon.	4	0	"	"	5		30.26	56	54	51	58	"	"	3	"	

Distance run by Log since preceding Noon 78 knots 1 tenths ~~fathoms.~~

Latitude by D. R. at Noon 24° 17' 00" N

Longitude by D. R. at Noon 118° 39' 00" E

Latitude by Observations at Noon ⊙ 23° 56' 26" N

Longitude by Chronometer from Forenoon Observations ⊙ 118° 35' 00" E

1074 Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1700 "

Coal consumed during the preceding 24 hours 14 tons 2040 lbs.

Coal remaining on hand at Noon 99 " 520 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.	2	5	NE½E	NNE												
1	2	5	NE	"	4-5		30.23	58	55	52	58	bcg	Circum	3	M	
2	5	2	"	"	4		30.23	58	55	52	58	bc	"	2	"	
3	0	0	—	"	4		30.20	59	55	52	58	"	"	3	"	
4	4	0	NE	"	4		30.18	59	55	52	58	"	"	4	"	
5	6	2	"	"	4-5		30.18	59	55	52	58	"	"	3	"	
6	6	0	"	"	4-5		30.19	60	56	54	58	bcg	Circum & cum	1	"	
N 7	6	4	"	"	4-5		30.18	62	56	52	58	ocg	"	0	"	
24°23 E 8	6	4	"	"	5		30.17	64	58	55	59	"	"	0	"	
119°06 9	6	0	"	NEbyN.	5		30.20	62	58	55	59	oc	"	0	"	
10	5	5	"	"	5		30.20	62	58	55	59	"	"	0	"	
11	5	5	"	"	4		30.20	61	58	55	59	"	"	0	"	
Mid.	5	0	"	"	4		30.20	60	58	55	59	ocd	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ 118° 38' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Thursday. March 13. , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy. Strong breeze from N.E. with frequent squalls. Rough sea. Barometer steady. Steam 38 lbs. Revolutions 36. Aneroid barometer 30.44

W.M. Irwin
wmI Lieut

4 to 8 A.M. Cloudy. Cool. Strong breeze from N.E. Moderate sea. At 6.00 passed White Star Steamer "Arabic" Steaming under 6 boilers. Steam 40 lbs. Revs 36. Aneroid 30.48. Patent log registered 59 miles.

Wainwright Kellogg wk Lieut

8 A.M. to Meridian. Weather pleasant. Fresh breeze from N.E. Barometer steady. Moderate sea. Under steam, pressure 50 lbs and 44 revolutions. Taffrail log at noon 58.6 ~~knots~~, and Masseys patent log 78 knots. Aneroid barometer 30.40. Mustered and inspected at quarters at 9.15.

Karl Rohrer, Lieut.

Meridian to 4 P.M. Weather cloudy and pleasant. Moderate to gentle breeze from N.N.E. Barometer falling. At 12.30 changed course to N.E. At 2.00 stopped steaming to overhaul engines. At 3.10 started ahead and put ship on course. Aneroid at end of watch 30.37. Steam pressure 50. Revolutions 44. Patent log 73.

A.H.Mc Lieut

4 to 6 P.M. Pleasant weather. Moderate breeze from N.N.E. slightly freshening. Mustered at quarters at 4.45. At 4.52 exercised at fire quarters. Steam 52 lbs. Revolutions 46.

W.M. Irwin
wmI Lieut

6 to 8 P.M. Cloudy. Pleasant. Moderate breeze from N.N.E. Smooth sea. Steam 52 lbs. Revs. 45. Aneroid 30.40. Pat. log at end of watch 96.3 miles

Wainwright Kellogg wk Lieut

8 P.M. to Midnight. Weather pleasant. Moderate to fresh breeze from N.E. by N. Barometer steady. Drizzling rain in last hour of watch. Under steam, pressure 49 lbs and 44.5 revolutions. At 11.20 sighted Ocsien light from the fore topmast crosstrees, it bearing about three points on port bow. Aneroid barometer 30.36.

Karl Rohrer Lieut

Moon l mid Examined and found to be correct.
Dec 6° 30' 13" S.
Phase Full moon.

Wm. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Hong Kong, China to Nagasaki, Japan.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
					Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
	A. M.																
	1	6	0	N E	N E by E	4		30.17	60	56	55	59	ocd	cir cum cumuls	0	S	
	2	6	0	"	"	4		30.15	60	56	54	59	"	"	0	"	
	3	6	4	N E ½ E	"	3		30.15	60	56	54	59	bc	"	2	"	
	4	6	4	"	"	3		30.15	60	56	54	59	"	"	1	"	
25° N	5	6	8	"	N E.	2		30.15	60	56	54	59	"	cir cum	2	"	
120° E	6	7	4	"	"	2		30.16	60	56	54	59	"	"	3	"	
	7	7	6	"	"	2		30.18	60	56	54	58	"	"	3	"	
N 25°24' E	8	7	2	"	"	2		30.19	60	56	54	58	"	"	3	"	
120°19'	9	8	0	"	"	2		30.20	59	56	54	60	"	cir cum str	4	"	
	10	8	4	"	"	2		30.18	60	58	56	62	"	cir cum	8	"	
	11	8	4	"	N N W.	2		30.18	61	60	58	62	"	"	8	"	Set jib. F.T. Stay & spanker
	Noon.	6	4	"	"	2		30.18	61	60	58	62	"	"	8	"	

Distance run by Log since preceding Noon	147 knots 2 ~~fathoms~~ tenths.
Latitude by D. R. at Noon	25° 37' 36" N
Longitude by D. R. at Noon	120° 42' 00" E
Latitude by Observations at Noon ⊙	25° 42' 28" N
Longitude by Chronometer from Forenoon Observations ⊙	120° 46' 15" E
Current during the time ——— knots ——— fms. per hour, setting to the	?
1051. Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ——' "
Variation of the Compass by Azimuth ⊙ observed at	——' "
Water expended during the preceding 24 hours	350 gallons.
Water during the preceding 24 hours	"
Water remaining on hand fit for use at Noon	1350 "
Coal consumed during the preceding 24 hours	16 tons 1960 lbs.
Coal remaining on hand at Noon	82 " 800 "

	Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.																
	1	7	5	N E ½ E	N E	1		30.14	62	61	59	62	bc	cir str cir cum	7	S	Took in f & aft sail
	2	2	5	"	"	1		30.12	62	61	59	62	"	"	6	"	
	3	8	0	"	"	1		30.11	63	62	59	61	"	"	5	"	
	4	7	5	"	E N E	2		30.10	63	61	59	61	"	"	9	"	Set jib
	5	7	6	"	E by S.	2		30.10	63	62	60	61	"	"	9	"	Set F.T. stay sl & spanker
	6	8	0	"	"	2		30.08	63	61	59	61	"	"	9	"	Set fly jib M. Try sail and foresail.
	7	8	8	"	"	2		30.08	65	61	59	61	"	"	8	"	
N 26°21 E	8	8	4	"	"	2		30.09	66	61	59	61	"	"	8	"	Took in foresail and
121°42	9	8	0	"	N E by E	2		30.11	67	64	62	62	"	cir str & cum	9	"	f and aft sail
	10	8	0	"	"	2		30.12	67	64	62	62	"	"	9	"	
	11	8	0	"	"	2		30.12	67	64	62	62	"	"	8	"	
	Mid.	8	0	"	"	2		30.12	66	64	62	62	"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊙	120° 50' 00" E
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Friday. March 14th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy with light drizzling rain first half of watch: last half pleasant. Barometer steady. At 12.38 Ocsieu Lt. bore (p.c.) N by W, and at 2.10 N.W. Run in interval by pat. log 9 miles. Changed course at 2.10 to N E 1/2 E: pat. log 30.7. Aneroid at end of watch 30.34. Steam pressure 50. Revs. 45. Patent log 44. Ocsieu Lt. W 3/4 N. Passed a steamer at 3.50 standing to Sd and Wd.

CPR Lieut

4 to 8 A.M. Cloudy and cool. Light breeze from N E. Smooth sea, Ocsieu Light disappeared from view at 4.15. bearing (p.c.) W 1/4 N. At 5.15 sighted Turnabout Isl'd Light bearing N by W. Steam 53 lbs, Revs 47. Aneroid 30.38

W.M. Irwin Lieut

8 AM to Meridian, Clear and pleasant. Light airs from N E. until 10. when wind changed to N. N. W. Smooth sea. At 9.15 called all hands and fidded topgallant masts. At 11. set fore and aft sail. Steaming under six boilers. Revs 47. Steam 55 lbs. Patent log at end of watch 105.6. miles. Aneroid 30.32.

Wainwright Kellogg
WK Lieut

Meridian to 4 P.M. Weather clear and pleasant. Barometer falling slowly. Under steam, pressure 50 lbs and 45 revolutions. At 1.00 went to general quarters and had target practice, firing six shell out of each of the starboard IX in guns, [illegible] of the 8 in rifle and two shell out of the 60 pdr. B.L.R. Braced the yards around by the port braces, and set jib at end of watch, Aneroid barometer 30.30. At end of watch patent log indicated 31.7 Knots

Karl Rohrer Lieut

4 to 6 P.M. Weather clear and pleasant. Gentle breeze from E by S. Barometer falling. At 4.30 set fore topmast staysail and spanker. At 4.55 crossed topgallant and royal yards. At 5.05 set main trysail and flying jib, At 5.40 set foresail. Aneroid at end of watch 30.30. Steam pressure 50 lbs. Revs 45. Patent log 48.

Corwin P. Rees
CPR Lieut

6 to 8 P.M. Pleasant weather. Gentle breeze from E by S. Smooth sea, At 6.50 hauled up the foresail. Steam 52 lbs. Revs. 45. Aneroid barometer 30.32. Patent-log. 65.

W.M. Irwin
WMI Lieut

8 PM to Midnight, Clear and pleasant. Light airs from N E. by E. Smooth sea. Bright moonlight. Steaming under six boilers. Steam press. 52 lbs. Revs 48. Aneroid 30.31. Patent log at end of watch 97 miles.

Wainwright Kellogg
WK Lieut

Moon l. mid. Examined and found to be correct.
Dec 10° 00' 20" S.
Phase. Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Hong Kong, China to Nagasaki, Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	8	0	NE½E.	E by S	3		30.11	65	65	64	66	bc	Cir	8	S	
2	8	0	"	"	3		30.10	65	66	65	66	"	Cir & Circum	6	"	
3	8	0	"	"	3		30.09	66	66	65	66	"	"	5	"	
4	8	5	"	"	3		30.09	66	65	64	66	"	"	4	"	Fore and aft sails
5	8	0	"	"	3		30.09	66	65	64	66	"	"	4	"	
6	8	4	"	"	3		30.09	66	65	64	66	"	"	2	"	
7	8	4	"	"	3		30.10	66	67	66	66	"	"	2	"	
n 27°31 8	8	4	"	"	3		30.10	66	67	66	66	"	"	1	"	
E 123°10' 9	7	6	"	"	3		30.10	66	67	66	66	"	"	3	"	
10	8	6	"	"	2		30.11	68	68	66	66	"	"	3	"	
11	8	8	"	"	2		30.11	69	69	67	66	"	"	5	"	
Noon.	7	0	"	"	2		30.11	69	69	67	68	"	"	2	"	Set main trysail

Distance run by Log since preceding Noon 188 knots 0 ~~fathoms.~~

Latitude by D. R. at Noon 27° 46' 52" n

Longitude by D. R. at Noon 123° 30' 00" E

Latitude by Observations at Noon ⊙ 27° 52' 01" n

Longitude by Chronometer from Forenoon Observations ⊙ 123° 38' 00" E

Current during the time knots fms. per hour, setting to the

1051 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 400 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 950 "

Coal consumed during the preceding 24 hours 17 tons 620 lbs.

Coal remaining on hand at Noon 65 " 180 "

P. M.																
1	8	0	NE½E	E by S.	4		30.09	67	63	62	68	bc	Cir Cum	4	S	
2	7	8	"	"	4		30.08	66	62	61	68	"	"	3	"	
3	8	2	"	"	4		30.06	66	61	60	65	"	Cir Cum Str	1	"	
4	8	8	"	"	4		30.04	65	61	60	64	"	"	4	"	Set foresail
5	6	0	"	ESE	4		30.04	65	61	60	60	"	Cir Cum	8	"	
6	8	5	"	"	4		30.04	64	60	59	60	"	Cum Nimb	5	"	
7	8	5	"	"	4		30.05	65	60	59	60	"	"	3	"	
n 28°34 8	8	4	"	"	4		30.05	65	61	60	60	"	"	3	"	
E 124°41 9	9	2	"	"	4		30.06	67	61	60	60	"	"	5	"	
28-48 n 10	8	8	"	"	4		30.06	67	61	60	60	"	"	1	"	
125° E 11	9	0	"	"	4		30.06	67	61	61	60	"	"	1	"	
Mid.	9	0	"	"	4		30.05	67	61	61	60	"	"	1	"	

Longitude by Chronometer from Afternoon Observations ⊙ 124° 45' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. N.

Saturday, March 15th, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A.M. Weather clear and pleasant. Gentle breeze from E by S. Barometer falling slowly. Under steam and fore and aft sail. Steam pressure 47 lbs, and making 48.2 revolutions. At end of watch patent log indicated 30.25 knots. Aneroid barometer 30.30.

Karl Rohrer KR Lieut

4 to 8. A.M. Weather cloudy and pleasant. Gentle breeze from E by S. Barometer steady. Course N.E. ½ E. Aneroid at end of watch 30.31. Steam pressure 52. Revolutions 48. Patent log. 64

Corwin P. Rees CPR Lieut

8. A.M. to Meridian. Cloudy weather. Gentle breeze from E by S. Smooth sea. At 11.29 set main trysail. Passed a British steamer heading S.W. Steam 51.5. Revolutions. 49.4 Aneroid barometer 30.29.

W. M. Irwin W.I. Lieut

Meridian to 4 P.M. Cloudy. Pleasant. Moderate breeze from E by S. Smooth sea. At 3.30 set foresail. Steam 49 lbs. Revolutions 46.6. Patent log. 27.8 miles. Aneroid 30.25.

Wainwright Kellogg WK Lieut

4 to 6. P.M. Weather pleasant but damp. Moderate breeze from E.S.E. Barometer steady. Under steam, pressure 48 lbs, and number of revolutions 47. Fore sail, and fore and aft sail. Aneroid barometer 30.27.

Karl Rohrer Lieut

6 to 8. P.M. Weather cloudy and pleasant. Moderate breeze from E.S.E. Barometer steady. Aneroid at end of watch 30.28. Steam 50. Revs 48. Patent log 60.

Corwin P. Rees CPR Lieut

8. P.M. to Midnight. Cloudy and damp. Moderate breeze from E.S.E. Smooth sea. Steam 54 lbs. Revs 51. Aneroid bar. 30.26. Pat. log 96.

W. M. Irwin W.I. Lieut

Moon l mid Examined and found to be correct.
Dec 12° 37′ S.
Phase. Full.

W. T. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Hong Kong China to Nagasaki Japan.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
1052	1	8	6	N E ½ E	E S E	3		30.02	64	62	61	60	bc	Cir cum & cum	3	S	
	2	8	4	"	"	3		30.00	65	62	61	60	"	"	2	"	
	3	8	6	"	"	3		29.98	64	61	61	60	bcf	"	1	"	
	4	9	0	"	S. E.	3		29.97	64	61	61	60	ocf	Cum & Nimb	0	"	Set f & aft sail & foresail
	5	9	0	"	S S E.	3		29.97	64	61	61	60	bf		6	"	
	6	9	0	"	S by E	3		29.97	64	61	61	60	"		6	"	
	7	9	0	"	"	3		29.97	63	61	61	60	"		5	"	Set all square sail ex
n 29°45'	8	10	0	"	"	4		29.97	63	61	61	60	"		5	"	cept mainsail
E 126°14'	9	9	5	"	S.	4		29.95	64	62	61	60	bcf	cum & cir cum	4	"	
30° N	10	9	6	"	S by W.	4		29.92	64	62	61	60	"	"	4	"	
126°-30 E	11	9	7	"	S S W	4		29.92	65	63	62	59	"	"	4	"	
	Noon.	6	4	"	"	4		29.90	65	63	62	59	"	"	4	"	Took in spanker

	Distance run by Log since preceding Noon	*207* knots *0* fathoms.
	Latitude by D. R. at Noon	*30°* *08* ' *00*" *N*
	Longitude by D. R. at Noon	*126°* *43* ' *00*" *E*
	Latitude by Observations at Noon ⊙	° ' "
	Longitude by Chronometer from Forenoon Observations ⊙	° ' "
1032	Current during the time knots fms. per hour, setting to the	
	Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "
	Variation of the Compass by Azimuth ⊙ observed at	° ' "
	Water expended during the preceding 24 hours	*350* gallons.
	Water during the preceding 24 hours	"
	Water remaining on hand fit for use at Noon	*600* "
	Coal consumed during the preceding 24 hours	*17* tons *1020* lbs.
	Coal remaining on hand at Noon	*47* " *1400* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	9	2	N E ½ E	S W.	3		29.88	65	63	62	59	bcf	Cir cum & cum	3	S	Took in f & aft sail
2	9	0	"	"	3		29.87	65	63	62	59	"	"	5	"	
3	9	2	"	"	3		29.85	66	64	63	59	"	"	2	"	
4	9	4	"	"	3		29.84	66	64	63	63	bc	"	2	"	
5	9	4	"	"	3		29.86	66	64	63	63	"	cir str & nimb	3	"	
6	9	6	"	W S W.	3		29.86	66	64	63	63	ocd	"	0	"	
7	9	5	"	N W.	5		29.87	67	60	59	62	ocdl	nimb	0	"	Took in royal. Set f.
8	9	5	"	"	5		29.88	66	59	58	61	ocrl	"	0	"	and aft sail
9	8	4	"	N by W.	5		29.88	66	59	59	61	"	"	0	"	
10	8	4	N E by E.	N N W.	5		29.86	66	59	59	61	"	"	0	"	Took in all sq. sail
11	8	8	"	N by W.	5-7		29.86	63	59	58	61	ocqd	"	0	"	Took in jib
Mid.	9	0	"	N.	5-7		29.86	62	59	58	61	"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙	° ' "
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Sunday. March 16. 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Foggy after two o'clock. Light breeze from E by S. hauling to S.E. Smooth sea. Blew the steam whistle about every five minutes. Steam 52 lbs. Revs. 51. Pat. log 30.4. Aneroid 30.30.

Wainwright Kellogg Lieut

4 to 8 A.M. Weather foggy and damp, but not unpleasant. Breeze gentle to moderate from S.E. to S by E. Barometer steady at 29.97. At 6.40 set all square sail except the mainsail. Under steam pressure 45 lbs, and making 47 revolutions. Aneroid barometer 30.20. At end of watch patent log indicated 65.1

Karl Rohrer Lieut

8 A.M. to Meridian. Weather cloudy with very thick fog. Barometer falling. Moderate breeze from Sd. and Wd. The Comdg Officer inspected the ship and crew at quarters at 9.30. Took in spanker at 11.50. Aneroid at end of watch 30.14. Steam 47. Revs. 50. Patent log 33.8.

C. P. Rees Lieut

Meridian to 4 P.M. Cloudy and foggy, clearing last hour. Gentle breeze from S.W. Smooth sea. At 12.35 took in flying jib, fore topmast staysail and main trysail. Steam 46 lbs. Revolutions 49.6. Aneroid barometer 30.10.

W. M. Irwin Lieut

4 to 6 P.M. Cloudy; drizzling rain last hour. Moderate breeze from S.W. hauling to W.S.W., and at end of watch to W. Smooth sea. Steam 52 lbs. Revolutions 50. Aneroid barometer 30.10. Wainwright Kellogg Lieut

6 to 8 P.M. Weather overcast and rainy. Fresh breeze from N.W. Barometer steady. The wind hauling ahead, braced sharp up, set fore topmast staysail and main trysail, and took in the royals. Under steam pressure 51 lbs making 49.7 revolutions. Aneroid barometer 30.14.

Karl Rohrer Lieut

8 P.M. to Midnight. Weather overcast first part of watch with heavy rain and variable winds. Barometer steady. Took in and furled all square sail at 8.10. Took in jib at 10.30. Strong winds last half of watch from Nd. and Wd. hauling to Nd. and Ed. Aneroid at end of watch 30.15. Steam 51 lbs. Revolutions 48. At 9.00 changed course to N E by E.

C. P. Rees Lieut

Moon l mid Examined and found to be correct.
Dec 15° 30' 03" S.
Phase. Full moon

W. S. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Hong Kong China, to Nagasaki Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	8	8	N E by E	N.	5-7		29.85	61	58	55	59	ocqd	Cum & nimb	0	M.	
2	8	0	"	"	5-7		29.83	61	58	55	59	ocq	"	0	"	
3	8	0	"	"	5-7		29.82	60	56	53	60	"	"	0	"	
4	3 4	8 0	N E.	"	5-7		29.82	60	56	53	59	"	"	0	"	F. T. Stay'l & M. Trysail
5	7	0	"	"	5-7		29.84	57	54	49	59	"	"	0	"	
6	6	4	"	"	5-7		29.86	56	54	50	59	bcq	cirro-cum cum nimb	1	"	
7	6	4	"	"	5-7		29.88	57	56	52	59	"	"	3	"	
n 31°45 E 8	6	4	"	"	5-7		29.90	57	55	54	59	"	Ci. cum	4	"	
129°08 9	5	0	"	"	5-6		29.95	58	55	49	59	"	Ci	6	R.	
10	5	0	"	"	5-6		29.97	58	54	48	59	"	"	7	"	
11	4	5	"	"	5		30.00	57	54	48	59	bc	cirrus & Ci cum	5	"	
Noon.	5	0	"	"	5		30.00	57	54	48	59	"	"	6	"	Took in F. Trysail

Distance run by Log since preceding Noon 188 knots 5 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 31° 59' 00" N

Longitude by D. R. at Noon 129° 26' 00" E

Latitude by Observations at Noon ⊙ 31° 58' 00" N

Longitude by Chronometer from Forenoon Observations ⊙ 129° 20' 00" E

Current during the time knots fms. per hour, setting to the

1032 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 250 "

Coal consumed during the preceding 24 hours 17 tons 120 lbs.

Coal remaining on hand at Noon 30 " 1280 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.															
1	3	8	N E ½ E	N.	5		29.98	58	55	50	59	bc	Cum & Ci cum	6	S
2	4	2	"	"	5		29.97	58	54	49	59	"	"	6	"
3	5	0	"	"	5-6		29.97	58	53	48	59	bcq	"	5	"
4	5	5	"	"	5-6		29.98	58	53	48	59	"	"	2	"
5	4	6	"	"	5-6		29.98	58	53	48	59	"	"	4	"
6	4	6	"	"	5-6		30.00	60	54	49	59	"	"	7	"
7	5	4	"	"	4-6		30.01	60	52	48	59	"	"	8	"
n 32°35 E 8	5	6	"	"	5-7		30.01	60	52	48	57	ocq	cum & nimb	0	"
129°34 9	4 1	0 0	N.N E.	N N E.	5		30.02	57	50	46	57	bc	ci & Ci cum	5	"
10	2 3 1	0 0 0	N E E + N	"	5		30.04	55	49	44	57	"	"	6	"
Standing in for Nagasaki				"	5		30.06	55	48	43		"	"	5	"
Anchored			N E	"	5		30.06	55	48	43		"	"	6	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Monday, March 17, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy with drizzling rain first hour, partly clearing latter part of watch. Strong winds with freshening squalls from North. Long sea. At 3.35 changed course to N.E. patent log reading 68.2 knots. Steam 45 lbs. Revs 46.9 Aneroid barometer 30.16.

W.M. Irwin Lieut

4 to 8 A.M. Cloudy until 5.30 when weather became clear. Blowing a moderate gale from North. Moderate sea. Steaming. Steam 45 lbs. Revs. 46. Aneroid 30.20. At 5.50 sighted high land bearing E by S.

Wainwright Kellogg WK Lieut

8 A.M. to Meridian. Weather squally but not unpleasant. Breeze stiff in squalls from North. Barometer rising slowly. Under steam, pressure 47 lbs. making 47 revolutions. At 12.00 changed course to N by E ½ E. by order of Captain and took in fore and aft sail. Sea rough, ship riding it easily. At noon patent log indicated 82.4: it showing 65 when put over at 8.15. Aneroid barometer 30.24.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather partly cloudy with strong winds from Nd. freshening latter part of watch. Barometer steady. Land faintly visible from starboard bow to quarter. Steering a course N by E ½ E. Aneroid at end of watch 30.26. Steam 48. Revs 44. Patent log 98.9

A.P. Ree APR Lieut

4 to 6 P.M. Clear and cool. Strong breeze from North. Mustered at quarters at 4.45. Steam 46 lbs. Revolutions 41.4. Aneroid barometer 30.25.

W.M. Irwin Lieut

6 to 8 P.M. Clear and pleasant. Cloudy last half hour. Smooth sea. Fresh breeze from N by E. At 6.50 sighted Nagasaki Light bearing N.N.E. at end of watch light bore N E ¾ N. distant about 12 miles. At 7.50 changed course to N by E. Steam 46 lbs Revolutions 41. Aneroid 30.30. Pat. log. 19¾ miles. Land in sight on starboard beam and bow distant about three miles

Wainwright Kellogg WK Lieut

8 P.M. to Midnight. Weather clear and pleasant. Fresh breeze from N N E. Barometer rising. Standing in for Nagasaki harbor. At 10.00 sighted Nagasaki light, and stood in for the anchorage, Captain directing the course. Changed course to N.N.E at 8.50 to N.E. at 9.17, to E by N. at 9.57, and to E.S.E at 10.05. At 11.20 came to with port anchor in 8 fathoms of water, veering to 30 fathoms of chain. Aneroid barometer 30.33. Hauled fires and started two fires for distilling.

KR

Karl Rohrer, Lieut

Moon l. mid Examined and found to be correct.

Dec. 17° 20' 52 S.

Phase. Full moon.

W. H. Parker

Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"* , *3d* Rate, *6* Guns,

At anchor off Nagasaki. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N. E	N E.	2		30.06	55	47	42		bc	Cir cum	5	S	
2	″		″	″	2		30.06	55	47	42		″	″	2	″	
3	″		″	″	2		30.06	55	47	42		oc	″	0	″	
4	″		″	″	2		30.05	54	46	42		″	″	0	″	
5	″		″	″	2		30.05	54	47	42		bc	″	4	″	
6	″		″	″	1		30.07	54	47	42		″	″	5	″	
7	″		″	″	1		30.09	54	46	43		″	″	4	″	
8	″		N E by E.	″	1		30.10	54	47	42		″	″	8	″	
9	″		″	″	1		30.14	60	49	44		″	Cir	9	″	
10	″		″	″	1		30.14	60	50	44		″	″	9	″	
11	″		″	″	1		30.14	61	50	44		″	″	9	″	
Noon.	″		″	″	1		30.14	60	53	44		″	Cir cum	8	″	

Distance run by Log since preceding Noon *49* knots *7* ~~fathoms.~~ *tenths*

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *350* gallons.

Water *distilled* during the preceding 24 hours *1500* "

Water remaining on hand fit for use at Noon *1200* "

Coal consumed during the preceding 24 hours *22* tons *1040* lbs.

Coal remaining on hand at Noon *8* " *240* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
Anchored			N.	N.	2		30.12	62	53	46		bc	Cir cum	4	S	
2	″		″	″	2		30.11	62	53	46		″	″	3	″	
3	″		″	″	2		30.10	63	54	46		″	″	3	″	
4	″		″	″	2		30.10	63	54	47		″	″	2	″	
5	″		″	″	3		30.10	63	53	46		″	″	1	″	
6	″		″	″	3		30.10	63	49	45		″	″	1	″	
7	″		″	″	3		30.10	63	48	44		″	″	3	″	
8	″		″	″	3		30.13	68	48	44		″	″	6	″	
9	″		N.N.E	N N E	3		30.14	69	48	44		″	″	6	″	
10	″		″	″	3		30.14	69	48	44		″	″	6	″	
11	″		″	″	3		30.14	69	48	44		″	″	6	″	
Mid.	″		″	″	3		30.14	68	48	44		″	″	6	″	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Tuesday, March 18, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy and cool. Gentle breeze from N.E. Barometer steady. Began distilling at 1.40. Riding to ebb tide. Aneroid at end of watch 30.32.

C.P. Rees Lieut

4 to 8 A.M. Clear and pleasant. Light breeze from N.E. Crossed topgalt and royal yards and loosed sail. Aneroid barometer 30.36.

W.M. Irwin Lieut

8 A.M. to Meridian. Clear delightful weather. Light airs from N.E. At 9.30 mustered at quarters. Sent an officer to U.S. Consul. By order of Comdg Officer. Julius Hartman (Os) was placed in solitary confinement for five days on bread and water for disobeying a sentry. Received one cord of wood in Equipt Dept. Aneroid 30.38.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Weather fair. Light Nly winds. Barometer falling slowly. Commanding Officer paid official visits on shore. Furled sail at 1. pm. Sent an officer to board the Am. barque B.F. Watson. Aneroid 30.32

W.C.P. Muir Ensign.

4 to 6 P.M. Weather pleasant. Gentle breeze from North. Barometer steady. Distilling water. Received on board in Dept. of Provisions and Clothing. 5 bbls pork, 1 bbl rice, 8 kegs pickles, 2 bbls sugar, 2 boxes of butter, and 12 boxes tomatoes. Aneroid barometer 30.34.

Hal Hobson Lieut

6 to 8 P.M. Weather cloudy and cool. Gentle breeze from Nd. Barometer steady. Distilling. Aneroid at end of watch 30.35.

C.P. Rees Lieut

8 P.M. to Midnight. Fair weather and cool. Gentle breeze from N.N.E. Aneroid barometer 30.35.

R.O. Bitler Ensign

4/7

Moon at mid Examined and found to be correct.
Dec. 18° 36' 30" S.
Phase. Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored off Nagasaki Japan.

Hour.	Knots.	Fathoms.	Courses steered.	Winds.		Leeway	Barometer.		Temperature.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N.	N	2		30.14	64	47	43		bc	Cirrus	2	S	
2	"		"	"	2		30.14	60	47	43		"	"	1	"	
3	"		"	"	2		30.12	59	46	43		"	"	5	"	
4	"		"	"	2		30.12	57	46	42		"	"	3	"	
5	"		"	"	2		30.12	55	45	42		"	"	2	"	
6	"		"	"	2		30.12	55	45	42		"	"	2	"	
7	"		"	"	2		30.12	55	45	42		"	"	3	"	
8	"		"	"	2		30.12	55	45	42		"	"	6	"	
9	"		"	"	2		30.14	58	50	45		"	"	6	"	
10	"		"	"	2		30.16	60	52	47		"	"	7	"	
11	"		"	"	2		30.17	60	54	47		"	"	8	"	
Noon.	"		"	"	2		30.17	62	54	47		"	"	8	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ' "	
Longitude by D. R. at Noon	° ' "	
Latitude by Observations at Noon ⊙	° ' "	
Longitude by Chronometer from Forenoon Observations ⊙	° ' "	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "	
Variation of the Compass by Azimuth ⊙ observed at	° ' "	
Water expended during the preceding 24 hours	350 gallons.	
Water distilled during the preceding 24 hours	1400 "	
Water remaining on hand fit for use at Noon	2450 "	
Coal consumed during the preceding 24 hours	3 tons 880 lbs.	
Coal remaining on hand at Noon	178 " 2160 "	

P. M.																
Anchored			N.	N.	3		30.14	60	55	49		bc	cir	9	S	
2	"		"	"	2		30.12	61	56	50		"	"	9	"	
3	"		"	"	2		30.12	61	56	50		"	"	9	"	
4	"		"	"	2		30.12	62	56	50		"	"	9	"	
5	"		"	"	2		30.14	62	54	48		"	"	9	"	
6	"		"	"	2		30.16	60	52	47		"	"	8	"	
7	"		"	"	2		30.16	60	50	47		"	"	9	"	
8	"		"	"	2		30.18	62	49	46		"	"	9	"	
9	"		"	"	2		30.18	62	49	46		"	"	9	"	
10	"		NNE	NE	2		30.18	61	49	46		"	"	9	"	
11	"		"	"	2		30.18	60	48	45		"	"	9	"	
Mid.	"		"	"	2		30.18	60	48	45		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙	° ' "
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Wednesday, March 19, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Light breeze from North Barometer steady. Aneroid barometer 30.36.

W.M. Irwin Lieut

4 to 8 A.M. Clear and pleasant. Light breeze from North. Distilling Commenced coaling at 6.15. Aneroid 30.46

Lieut

8 A.M. to Meridian. Fair with light winds from N. Rising barometer. By order of Comdg Officer halfmasted colors, during a funeral conducted at English Consulate. By order of Comdg Officer placed J. Kenny. (O.S.) in double irons under sentry's charge for safe keeping and paid to Deputy U.S. Marshal the sum of ten dollars for his apprehension, and delivery on board. Received on board in Equipment Department four bolts flax canvas #4. two bolts #8. 150 coal bags and one coil of 18 thd manilla: in Navigation Department fifty gallons of oil, and one patent log: in Pay Department 50 tin pots, 25 tin pans, 2 mess kettles, 1 barrel of vinegar: in Engr's Department 100 lbs sheet rubber, 1 sheet iron (90 lbs) 43 lbs insertion rubber: 60 lbs Tucks packing. Aneroid, at end of watch 30.38.

Ensign.

Meridian to 4 P.M. Weather clear and pleasant. Light to gentle breeze from North. Finished coaling having taken on board 174¼ tons. Commenced distilling at 3. Confined in double irons for safe keeping, by order of Commanding Officer. John McCann (2 C.F.) and Thos. Noon, (2 C.F.) they being drunk, and disorderly. Received on board in Equipment Department 4 bolts flax canvas #4. 2 bolts flax canvas #8. 10 lbs cotton twine. 1 side rigging leather. 1 coil 18 thd Manilla, and 150 coal bags. Received on board in Navigation Department 1 gross of lamp wick and 17 lbs candles for running lights. Aneroid barometer 30.35.

Lieut

4 to 6 P.M. Weather clear and pleasant. Gentle breeze from No. Barometer steady. Mustered at quarters at 4.45. Aneroid at end of watch 30.33. Making preparations for sea.

Lieut

6 to 8 P.M. Clear and cool with light breeze from N. By order of Commanding Officer, John Kenny (O.S.) was released from confinement, James Gillespie, (B.S.) was sent ashore to await steamer to take passage to Yokohama and be transferred to Hospital. Engaged in preparing for sea, Aneroid 30.40

R.O. Bitler Ensign

8 P.M. to Midnight, Clear and cool. Bright starlight, Gentle breeze from N.E. Aneroid barometer 30.42.

W.M. Irwin Lieut

Moon at mid.
Dec. 18° 43' 21. S.
Phase. Last quarter.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Nagasaki, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N E	N E	1		30.18	58	46	44		bc	cir	9	S	
2	"		"	"	1		30.18	58	46	44		"	"	9	"	
3	"		"	"	1		30.17	58	46	44		"	"	8	"	
Standing out Nagasaki Hb.				"	1		30.16	58	47	45	58	"	"	8	"	
5	3	0	S W ½ S.	E S E.	2		30.16	58	50	48	58	"	cir & circum	7	"	Fore raft sail & foresail
6	5 1	0 5	S ½ W.	"	3		30.16	58	52	50	59	"	"	6	"	Took in foresail
7	7	0	"	"	4		30.16	58	52	51	59	"	cir	6	"	
8	7	5	"	S E & E.	4		30.16	58	55	52	59	"	"	7	"	Set foresail
9	7	8	"	E S E.	4		30.14	58	56	52	59	"	circum	6	"	Took in "
10	7	6	"	S E & E	4		30.14	58	56	53	59	"	"	2	"	
11	7	2	"	"	4		30.11	58	57	54	59	"	"	2	"	
Noon.	6	8	South	S E	4		30.08	59	58	56	59	ocd	cir cum & nimb	0	"	

Distance run by Log since preceding Noon 53 knots 4 tenths ~~fathoms.~~

Latitude by D. R. at Noon 31° 47' 00" N

Longitude by D. R. at Noon 129° 36' 00" E

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

1032. Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 400 gallons.

Water *distilled* during the preceding 24 hours 900 "

Water remaining on hand fit for use at Noon 2950 "

Coal consumed during the preceding 24 hours 8 tons 1280 lbs.

Coal remaining on hand at Noon 170 " 880 "

P. M.																
1	6	8	S.	S. E	3-5		30.08	60	57	56	59	ocq	cum nimb	0	S	Took in flying jib
2	6	6	"	"	4		30.06	60	59	56	59	ocr	"	0	"	
3	2 4	0 0	S E ¼ S.	S E by E	4		30.04	60	60	58	59	"	"	0	"	Took in fore raft sail
4	5	2	"	"	4-5		30.01	60	60	58	59	oc	"	0	"	
5	5	4	"	E S E	5		30.00	60	60	58	59	ocr	"	0	"	
31-20 N 6	5	2	"	"	5		29.98	60	59	58	59	"	"	0	"	
130 E 7	5	0	"	"	5-6		29.98	60	59	58	59	ocqr	nimb	0	M	
31.17 E 13002 8	4	5	"	"	5-6		29.98	61	60	58	59	"	"	0	"	
9	5	0	"	"	5-6		29.96	62	60	58	61	bcqd	"	2	"	Set fore topt staysl & main trysail
10	5	8	S E by S	S W & W.	5-6		29.96	62	58	57	61	ocqd	"	0	"	
11	6	8	S E by E	W N W	5		29.96	62	58	56	61	ocd	"	0	"	
Mid.	3 3	0 0	S E by E ½ E	"	4		29.98	61	58	56	61	"	"	0	"	Set jib foresail & spanker

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Thursday March 20. , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from N.E. At 2.45 called all hands, and hove up port anchor, and stood out of the harbor of Nagasaki. Remainder of watch standing out through entrance to harbor. Ship's draft 14 ft 1 in ford, 15 ft 10 in aft. Steaming under 6 boilers. Aneroid 30.40.

Wainwright Kellogg Lieut

4 to 8 A.M. Clear and pleasant weather. Light to moderate breeze from E.S.E. to S.E. by E. Standing out of Nagasaki Harbor until 4.25 when Noma Saki light was on the port beam, distant ½ miles, put the ship on the course S.W. ½ S. and put over patent log. At 5.50 changed course to S ½ W. by order of Captain. Noma Saki Light bearing (p.c.) S.E. ½ E. Under steam, fore and aft sail and foresail. Steam pressure 46 lbs, and number of revolutions 40. At 8.00 patent log indicated 19.2 knots. Aneroid barometer 30.40.

Hal Kohser, Lieut

8 A.M. to Meridian. Weather cloudy with drizzling rain last hour of watch. Barometer falling. Rove off new lower, and topsail braces. Mustered at quarters at 9.30. By order of Comdg Officer released Thomas Noon, '2CF' and John McCail, '2CF' from confinement. At 8.45 took in and furled foresail. At 11.00 changed course to South. Land in sight during watch to Sd and Ed. Aneroid at end of watch 30.34. Steam 47.5. Revs 45. Patent log 41.5.

C. P. Rees Lieut

Meridian to 4 P.M. Overcast cloudy and squally with occasional rain. Moderate breeze from S.E. veering to S.E. by E, and freshening. At 12.35 took in flying jib. at 2.15 took in remainder of fore and aft sail. At 2.18 Lat. south end of Shimono-Koshiki Id bore (pc) East. Changed course to S.E. ¼ S. Patent log reading 53 miles. At 2.35 sent down topgalt and royal yards. Some small islands in sight from three to five points on stbd bow, at close of watch. Steam 43.25. Revs 41.3. Aneroid 30.26

W. M. Irwin Lieut

4 to 6 P.M. Cloudy. Disagreeable. Raining greater part of watch, Strong breeze E.S.E. Smooth sea. At 4.25 Taki Sima (Symplegedes) bore S.W. ¼ W. Land in sight on port bow. Steam 43 lbs. Revs. 41. Aneroid falling slowly 30.22 at end of watch.

Wainwright Kellogg Lieut

6 to 8 P.M. Weather overcast, cloudy squally and rainy. Breeze stiff in squalls from E.S.E. Barometer steady. Under steam, pressure 43 lbs. and making 40 revolutions. Sea moderate but rising. At 8. patent log indicated 73.5 knots. Aneroid barometer 30.22.

Hal Kohser, Lieut

8 P.M. to Midnight. Weather overcast, with occasional passing showers. Wind variable. Barometer steady. At 8.55 put over taffrail log showing 31.2 and hauled in Massy's log showing 75.2. At 9.00 changed course to S.E. by S. At 9.10 set fore topmast stay sail, and main trysail. At 11.00 sighted Sata no Misaki light from mast head and changed course to S.E. by E. At 11.30 changed course to S.E. by E ½ E. At 11.40 set jib, foresail, and spanker. Aneroid at end of watch 30.22. Steam 42. Revs. 40. Patent log 53. At 12.00 Sata no Misaki Lt bore E by N.

C. P. Rees Lieut

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

Moon l mid
Dec 18° 04' 06" S.
Phase: Last quarter

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan to Ujai Isl, Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	6	8	SE×E½E	W N W.	4		29.97	65	59	55	64	bc	Cir cum & cum	3	S.	Plain sail to topsails
2	9	0	"	"	4		29.96	64	59	57	62	bcl	"	4	"	except jib and mainsail
3	8	4 0	E N E.	W×N.	4		29.94	63	59	56	62	oc	"	0	"	Took in spanker and
4	8	0	"	"	4		29.93	63	59	57	63	ocd	"	0	"	main trysail. Set fore
5	8	0	E¼S.	"	4		29.93	62	59	57	63	bc	Cir cum strat.	6	"	and main topgallantsails
6	5	6	"	"	4		29.97	61	60	57	63	"	"	5	"	Set main royal. Set jib
7	6	0	"	N W.	4		30.00	61	61	57	63	"	Cir cum	6	"	and fore royal. Set port
n 31°01 E 8	6	0	"	"	4		30.03	62	62	57	64	"	"	8	"	studg'ls except lower
131°19 9	6	0	"	N N W.	5		30.04	62	64	58	66	"	"	7	"	
10	6	0	"	"	5		30.04	62	63	59	66	"	"	6	"	
11	6	0	E×S.	N.	5		30.04	62	63	60	67	"	"	4	"	Took in studg'ls
Noon.	4	0	"	N N E	4		30.04	62	63	60	67	"	"	5	"	Set fore and aft sail.

Distance run by Log since preceding Noon 148 knots 4 tenths ~~fathoms.~~

Latitude by D. R. at Noon 30°56'00" N

Longitude by D. R. at Noon 131°50'00" E

Latitude by Observations at Noon ⊙ 30°59'00" N

Longitude by Chronometer from Forenoon Observations ⊙ 131°45'00" E

Current during the time knots fms. per hour, setting to the —

1033. Variation of the Compass by Amplitude ⊙ observed at Sunrise ° — "

Variation of the Compass by Azimuth ⊙ observed at 8 a.m. 8°00'00" W

Water expended during the preceding 24 hours 400 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2550 "

Coal consumed during the preceding 24 hours 9 tons 640 lbs.

Coal remaining on hand at Noon 161 " 240 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	4	2	E by S	N.N.E.	4		30.00	63	62	57	68	bc	Cir cum	9	S	
2	3	8	E¾S	"	3		30.00	63	62	57	68	"	"	9	"	
3	3	8	"	"	3		30.00	63	62	57	68	"	"	9	"	
4	2	2	E by S	"	3		30.00	63	63	57	68	"	"	9	"	Took in main trysail and set mainsail
5	1	0	"	"	1		30.04	65	64	58	68	"	"	9	"	
No steerageway				Calm	0		30.05	65	64	58	69	"	"	7	"	
7	"	"		"	0		30.06	66	64	58	69	"	"	9	"	Took in mainsail and
n 30°58 E 8	1	0	E¼S.	W N W.	0-1		30.06	67	64	58	69	"	"	9	"	flying jib
132°06 9	1	0	E×N.	W	0-1		30.06	67	63	58	68	b	—	10	"	
10	2	0	E½N.	S W.	1-2		30.06	66	62	58	68	"	—	10	"	
11	2	5	E¼S.	"	2		30.06	66	62	58	68	bc	cir	9	"	
Mid.	3	5	"	"	3		30.06	66	62	58	68	"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ 131°48'30" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Friday. March 21. 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool: overcast last two hours. Moderate breeze from W by N to W N W. At 4.30 set fore and main topsails, crossed topgallant yards, and set topgallant sails. Took in spanker, and main trysail. At 2.05 Sata-no-Misaki Light bore North, estimated distance 7 miles. changed course to E N E. patent-log registering 69.8. At 3.30 let fires die out under two boilers. At 3.58 changed course to E ¼ S. patent-log 86.2. Steam 43 lbs. Revolutions 42.5. Aneroid barometer 30.18. Patent-log at end of watch 86.4

W M Irwin Lieut

4 to 8 A.M. Clear and pleasant, cloudy first hour of watch. Moderate breeze from W by N. which hauled to N W at 6. At 6.45 Inoi Saki bore N ½ E, and Satano point bore W N W ¼ W. Land visible at distance on both quarters, at end of watch. At 5. Crossed royals, and set them, and set all port stunsails except lower. Hauled fires. At 5. stopped steaming and disconnected screw, Aneroid 30.25. Patent-log 12 knots.

Wainwright Kellogg Lieut

8 A.M. to Meridian, Weather clear, and pleasant. Breeze moderate to fresh from N N W to N N E. Barometer steady. Sea smooth, Carried away the port fore topmast stunsail boom in setting the lower stunsail, the out haul being let go by mistake, and before it could be hauled out again the boom gave way. At 10.30 took in stunsails and braced sharp up, and set fore and aft sail, the wind hauling ahead, Passed a Japanese brigantine which showed her colors, and dipped which civility we returned in kind, Aneroid barometer 30.27. Patent log indicated 33.75 knots, at noon.

Karl Rohrer Lieut

Meridian to 4 P.M. Weather clear, and pleasant Gentle breeze from N N E. Barometer steady. Bent, and set mainsail, at 3.15, and took in main trysail. Aneroid at end of watch 30.28. Patent-log 48. Unbent chains, and got anchors on the bows. Hauled up lee clew of maintopsail, at 3.35 to repair leech.

P. Rees Lieut

4 to 6 P.M. Weather pleasant. Light airs from N N E. first hour, calm last hour Mustered, at quarters, at 4.45. Set lee clew of main topsail, at 4.10. At 4.20 took in spanker, and at 4.47 shifted topsails. At 4.30 hauled in patent-log reading 48 knots. Aneroid barometer 30.30.

W M Irwin Lieut

6 to 8. P.M. Clear and pleasant, Calm greater part of watch; light airs from West last half hour. Light swell from N E. Hauled up mainsail and hauled down flying jib. Aneroid 30.31.

Wainwright Kellogg Lieut

8 P.M. to Midnight, Clear and pleasant weather. Light to gentle breeze from W & S W. At 9.30 braced up a couple of points by the port braces to a light breeze from S. W., and set lee clew of mainsail. Aneroid barometer 30. 31.

Karl Rohrer, Lieut

Moon l mid
Dec. 16° 42' 40" S.
Phase. Last Quarter

Examined and found to be correct.

W. T. T. Parker
Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan to Ujai Isld. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	3	6	E¼S	SW×W.	3		30.06	65	62	58	68	bc	cir cum	8	S	all plain sail except
2	3	2	"	"	3		30.04	65	62	58	68	"	"	8	"	fly jib. spanker & weather
3	3	8	"	SW×S.	3		30.04	65	62	58	68	..	"	9	"	clew of mainsail.
4	4	4	"	SW×W.	3		30.04	65	62	58	68	"	"	9	"	Set weather clew of main
5	5	0	"	"	3		30.06	65	65	58	68	"	"	6	"	sail & spanker & stbd
6	5	2	"	W.S.W.	3		30.06	65	62	58	68	"	"	6	"	topgalt studg'ls
n 7	6	0	"	"	4		30.08	65	62	58	68	"	"	5	"	Took in weather clew of
31°34 E 8	7	2	"	"	4		30.10	65	62	59	68	"	"	5	"	mainsail. set stbd fore topst
133°05' 9	6	8	"	"	4		30.12	63	63	59	66	"	"	5	"	studg'ls & stbd lower studgs
10	7	2	"	"	4		30.12	63	64	59	66	"	"	5	"	took in f topst staysail
11	7	2	"	"	4		30.10	63	64	59	66	"	"	5	"	
Noon.	5	8	"	"	4		30.10	64	65	60	66	"	"	5	"	

Distance run by Log since preceding Noon 90 knots 0 tenths ~~fathoms.~~

Latitude by D. R. at Noon 30°59'24" N

Longitude by D. R. at Noon 133°34'00" E

Latitude by Observations at Noon ⊙ 31°34'00" N

Longitude by Chronometer from Forenoon Observations ⊙ 133°37'00" E

Current during the time 1.5 knots ~~fms.~~ per hour, setting to the N 5° E

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

1033. Variation of the Compass by Azimuth ⊙ observed at 8 a.m. 3°10' W

Water expended during the preceding 24 hours 400 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2150 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 160 " 2080 "

Hour.	Knots.	Fathoms.	Courses steered.	Wind Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	3 3	4 0	E¼S. E×S.	W.S.W.	4		30.08	64	64	59	66	bc	Ci. cum Ci cum	4	S	
2	6	6	"	"	4		30.07	65	64	59	66	"	"	4	"	
3	7	0	"	W×S.	5		30.06	64	64	59	66	"	"	4	"	
4	7	0	"	"	5		30.05	64	64	59	66	"	"	5	"	
5	6	2	"	"	5		30.02	64	64	59	66	"	"	2	"	
6	6	2	"	"	5		30.02	65	64	60	66	"	"	1	"	
n 7	7	2	"	"	5		30.04	66	63	60	66	bc	"	0	"	Took in spanker &
31°27 E 8	7	0	"	"	5		30.08	68	63	60	66	"	"	0	"	stbd studg'ls
134°39' 9	5	4	"	W.N.W.	4		30.08	68	65	60	65	bc	Cir cum	5	"	
10	3	6	"	"	3		30.06	68	64	60	65	"	"	4	"	
11	4	0	"	N.W.	3		30.06	68	64	59	65	"	Cir Cum & nimbus	4	"	
Mid.	3	6	"	"	3		30.06	69	64	59	65	"	"	5	"	

Longitude by Chronometer from Afternoon Observations ⊙ 133°37'30" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Saturday, March 22d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear, and pleasant. Gentle breeze from Sd and Wd. Barometer steady. At 3.05 set weather clew of mainsail & spanker. At 3.20 set starboard topgallant stunsails. The moon rose at 2.20. Aneroid at end of watch 30.28.

C. Keys Lieut

4 to 8 A.M. Pleasant weather. Moderate breeze from W S W. Smooth sea. At 6.00 hauled up weather clew of mainsail. Set starboard lower and fore topmast stunsails, and hauled down fore topmast staysail. Aneroid bar. 30.28.

W. M. Irwin Lieut

8 A.M. to Meridian. Pleasant weather with moderate breeze from W S W. Shifted flying jib. Went to quarters at 9.15 for inspection. By order of Commanding Officer placed John McCann, '2 C.F.' in double irons for seven days for being drunk on duty and Thos Noon, '2 C.F.' in double irons for five days for being drunk, and disorderly, also gave Geo. W. Jones. 'O.S' eight hours extra duty for shirking. At 9.45 patent log was put over, and indicated 48, at noon it read 67.8. Aneroid at end of watch 30.28.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Weather pleasant, Moderate to fresh breeze from W by S. to W S W. Barometer falling slowly. Sea smooth. At 4. Patent log indicated 95.2 knots. Aneroid barometer 30.26. Changed course to E by S at 12.35 by order of Captain: patent log reading 72 knots.

Karl Rohrer, Lieut

4 to 6 P.M. Weather cloudy and pleasant. Moderate breeze from W by S. Barometer falling. Mustered at quarters at 4.45. Steering E by S. Aneroid barometer at end of watch 30.28. Patent log 7.9

C. Keys Lieut

6 to 8 P.M. Overcast, and cloudy. Moderate breeze from W by S. Smooth sea, aneroid barometer 30.28. Patent log 22.4.

W. M. Irwin Lieut

8 P.M. to Midnight. Clear, and pleasant. Light breeze from W N W first half, N W the remainder of watch. Smooth sea. At 10.00 set lee clew of mainsail. Patent log at end of watch 38½ miles. Aneroid steady at 30.29.

Wainwright Kellogg
LOK
Lieut

Moon's mid. Examined and found to be correct.
Dec. 14° 34' 41" S
Phase, Last quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"* . *3d* Rate, *6* Guns,

Making passage from Nagasaki, Japan to Ujai I. Marshall Group

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
31-25 N 1	4	0	E by S.	W x N	2-3		30.06	66	64	58	65	b c	Cirrocum & Cumu	2	S	Plain sail.
135° E 2	3	5	„	W x S.	1-3		30.06	66	63	58	65	o c	„	0	„	
3	4	0	„	„	3		30.05	65	63	58	65	„	„	0	„	
4	4	0	„	W S W.	3		30.05	65	64	60	65	„	„	0	„	Set stbd stunsails except fore topgallt
5	3	0	„	„	3		30.03	65	64	60	65	o c d.	„	0	„	
6	3	2	„	N W.	3		30.03	65	64	60	65	„	„	0	„	
7	1	5	„	„	2		30.03	65	64	60	65	„	„	0	„	Took in stunsails and mainsail.
31-23 N 135-27 E 8	1	8	„	N W x N.	2		30.03	65	64	60	65	„	„	0	„	
9	1	0	„	N N E.	1		30.05	66	64	60	65	b c d	„	2	„	Set weather clew
10	No steerage way			E N E.	0-1		30.07	66	63	59	65	„	„	3	„	of mainsail and fore
11	1	0	E S E	„	1		30.07	66	63	59	65	„	„	2	„	and aft sail.
Noon.	1	0	S E	„	1		30.05	66	63	60	66	„	„	3	„	Took in spanker

Distance run by Log since preceding Noon 98 knots 2 ~~fathoms.~~ tenths

Latitude by D. R. at Noon N 31° 51' 28"

Longitude by D. R. at Noon E 135° 30' 15"

Latitude by Observations at Noon ⊙ N 31° 23' 15"

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

1034 Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1800 "

Coal consumed during the preceding 24 hours tons 4400 lbs.

Coal remaining on hand at Noon 160 " 1680 "

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	1	5	S E by E	N E	1		30.03	66	64	60	65	o c d.	Cir cumu nimb	0	S	Set spanker
2	3	0	N N E	E x S	2		30.01	66	63	60	65	o c r	„	0	„	
3	3	0	N x E	E	3		29.99	66	62	59	65	„	„	0	„	
4	3	6	N E.	S E x E	3-4		29.98	66	61	59	65	„	„	0	„	
5	2	8	E N E.	S E x S.	2		29.98	66	60	58	65	„	Cumu nimb	0	„	
6	2	5	„	„	2		29.96	66	60	59	65	„	„	0	„	
7	2	8	„	S E	2		29.96	66	60	59	65	„	„	0	„	
31-35 N 135-47 E 8	2	5	N E x E ½ E.	„	2		29.96	66	60	59	65	„	„	0	„	
9	3	4	E by N	S E x S	3		29.92	69	62	60	65	„	„	0	„	
10	4	5	E ½ S	S x E	4		29.90	68	61	60	65	„	„	0	„	
11	5	0	E x S	S	4-5		29.89	67	61	60	65	o c q r	„	0	„	Took in royals, fly jib
Mid.	5	6	„	„	4-5		29.89	66	61	60	65	„	„	0	„	and spanker

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Sunday March 23d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather pleasant though cloudy. Breeze light to gentle from W by N. to W.S.W. At 3. set the starboard stunsails except the fore topgallant. At 1.30 braced the yards a little by the port braces to a shift of wind. Aneroid barometer 30.25.

Karl Rohrer Lieut

4 to 8 A.M. Weather overcast with light drizzling rain. Barometer steady. At 5.45 took in starboard stunsails and mainsail. At 7.10 set stbd clew of mainsail, and at 7.25 all port stunsails the wind having hauled to Nd and Wd. Aneroid at end of watch 30.28. Patent log 58.8.

C. P. Rees Lieut

8 A.M. to Meridian. Light airs from N.N.E first hour, then falling calm and finally coming out from N E and hauling to E N E. At 8.05 took in all port stunsails and set flying jib, fore topmast staysail and weather clew of mainsail, and spanker. Took in spanker at 9.30. At 9.15 mustered at quarters. Plugged surface blow pipe on starboard side to stop leak. Frederick Lee. (S Wn.) having been absent from this ship since Mar. 9. with the manifest intention of not returning, is this day, by order of Comdg Officer, declared a deserter from the Naval Service. By order of Comdg Officer released Julius Hartman 'OS' from confinement. Ship full and by at end of watch; off her course, heading S E by S. Aneroid barometer 30.25.

W. M. Irwin
wmi
Lieut

Meridian to 4 P.M. Rainy and disagreeable. Winds varying in direction from N E to S E by E. Falling barometer. At 12.30 set spanker. At 1.30 wore ship. Aneroid at end of watch 30.20.

Wainwright Kellogg Lieut

4 to 6. P.M. Weather overcast and cloudy with drizzling rain. Light breeze from S E by S. Aneroid barometer 30.20.

Karl Rohrer Lieut

6 to 8. P.M. Weather overcast and rainy. Gentle breeze from S E. Barometer steady. Aneroid at end of watch 30.20.

C. P. Rees Lieut

8 P. M to Midnight. Overcast cloudy and rainy. Moderate breeze from S E by S. hauling to South, and freshening with frequent squalls. At 10.00 took in royals, flying jib & spanker. Aneroid barometer 30.15

W. M. Irwin
wmi. Lieut

Moon L mid Examined and found to be correct.
Dec 11° 31' 26" S.
Phase. Last quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" . 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan to Ujai I. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	4	6	E.	S.S.E	4		29.87	65	61	60	65	o c r	Nimb	0	S	Sq sail to topgallantsails
2	5	0	E×S	"	4-5		29.85	65	61	60	65	"	"	0	"	Jib + fore topst staysl
3	3	0	"	S.	3		29.82	65	61	60	65	"	"	0	"	
4	3	0	E×N.	"	3-4		29.79	65	61	60	65	o c g r	"	0	"	
5	6	0	"	"	5-6		29.76	65	63	63	65	"	Cum & nimb	0	"	
6	8	0	E×S	"	5-6		29.74	65	64	63	66	o c g p.	"	0	"	
7	7	0	"	S×W	5-6		29.72	65	65	64	66	"	"	0	"	
3-31 N 137-08 E 8	6 2	5 5	E S E ½ E.	S S W.	5-6		29.70	65	65	64	66	o c g	"	0	M	Set royals
9	9	2	"	S W×S.	5-6		29.68	65	66	64	66	b c q	"	1	"	
10	8	2	"	S. W.	5-6		29.66	65	66	65	66	"	"	2	"	Took in royals
11	8	8	"	"	6-7		29.64	65	66	65	66	"	"	2	"	
Noon.	7	0	"	S.W×W.	6-7		29.60	67	66	64	66	"	"	3	"	

Distance run by Log since preceding Noon 119 knots 0 tenths ~~fathoms.~~

Latitude by D. R. at Noon N 31° 23' 27"

Longitude by D. R. at Noon E 137° 39' 00"

Latitude by Observations at Noon ⊙ N 31° 35' 43"

Longitude by Chronometer from Forenoon Observations ⊙ E 137° 49' 00"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

1034. Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1450 "

Coal consumed during the preceding 24 hours tons 4400 lbs.

Coal remaining on hand at Noon 160 " 1280 "

P. M.																
1	4 4	5 5	S S E ½ E E S E	S W×W.	6-7		29.60	69	66	65	66	b c g d	cir cum & cum	4	M	
2	8	4	"	W N W	5-6		29.63	69	65	65	67	"	"	5	"	Took in M sail & jib
3	6	7	"	N W×W	4-5		29.65	69	64	63	67	"	"	1	"	Set lee clew of M sail
4	5	8	"	N W.	4-5		29.65	69	64	63	67	o c q	cum & nimb	0	"	
5	6	0	"	"	4		29.68	66	62	60	67	b c	"	1	L	
6	6	2	"	"	4		29.70	66	62	60	66	"	cir cum nimb	2	"	
7	6	4	"	"	5		29.74	68	62	60	66	"	"	4	R.	
31-17 N 138-50 E 8	7	6	"	"	5-6		29.77	68	61	59	66	b c g d	"	3	"	
9	7	3	"	N N W.	5-6		29.78	68	59	57	66	"	"	2	"	Set fore topst staysl
10	6	2	"	"	5-6		29.80	65	59	57	66	"	"	4	"	
11	6	4	"	N W×W.	4-5		29.82	65	60	57	66	b c q	cir cum	8	"	
Mid.	7	3	"	"	4-5		29.82	65	60	57	66	"	"	5	"	Took in lee clew of M sail

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Monday March 24. , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast, gloomy, disagreeable weather. Steady rain during entire watch. Light to fresh breeze from S S E to South. Light squalls first two hours of watch. Smooth sea. Barometer falling. Aneroid at end of watch 30.02.

Wainwright Kellogg
WK Lieut

4 to 8 A.M. Weather squally and rainy in first part of watch. Breeze stiff in squalls from S to S S W. Barometer falling. As the wind hauled aft, braced in and set royals. At 7.40 changed course to E S E ½ E. by order of the Captain. Sea smooth but rising. Aneroid barometer 29.98.

Karl Rohrer. Lieut

8 A.M to Meridian. Weather cloudy and squally. Fresh breeze with stiff squalls from Sd and Wd. Wind hauling to Wd. Barometer falling. Took in and furled royals at 9.20. Aneroid at end of watch 29.93.

C. J. Rees Lieut

Meridian to 4 P.M. Cloudy and squally with drizzling rain at intervals during watch. Wind very fresh from S. W by W. first hour, hauling around to N W. at end of watch and moderating. At 1.27 took in weather clew of mainsail, and at 1.50 took in mainsail. At 1.50 jib carried away, unbent it and bent new one. At 12.30 changed course to E. S. E. At 3.30 sent down royal yards. Aneroid barometer 29.95.

W M Irwin
WMI Lieut

4 to 6 P.M. Clear and pleasant. Moderate breeze from N W. Long swell from S.W. Aneroid 30.01.

Wainwright Kellogg
WK Lieut

6 to 8 P.M. Weather generally pleasant. Drizzling rain at intervals in last hour of watch. Breeze fresh from N W. Sea rough but moderating. Aneroid barometer 30.07.

Karl Rohrer, Lieut

8 P.M to Midnight. Weather partly cloudy with moderate breeze from Nd and Wd. Barometer rising. Set jib, fore topmast staysail and weather clew of mainsail at 8.15 and took them in at 11.00. Aneroid at end of watch 30.12.

C. J. Rees Lieut

Moon Lmid Examined and found to be correct.
Dec 7° 47′ 11″ S.
Phase. Last quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan to Ujai I. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	9	0	E.S.E.	W.N.W.	5-7		29.84	65	61	58	66	bcq	Cir cum & cum	7	R.	Sq. sail except royals
2	8	8	"	"	5-7		29.85	65	61	57	66	"	"	6	"	and mainsail
3	7	4	"	"	5-7		29.85	65	61	56	66	"	"	3	"	
4 30-58 N 140 E	7	6	"	"	5-7		29.86	65	61	56	66	"	"	5	"	
5	8	0	East	"	5-6		29.88	65	59	54	66	"	"	4	"	Set jib
6	7	6	"	"	5-6		29.92	61	58	53	66	"	"	5	"	
7	7	4	"	"	5-6		29.96	61	58	53	66	"	"	5	"	Set topt. staysl
8 30-58 N 140-32 E	7	6	"	"	5-6		29.99	61	58	53	66	"	"	5	"	
9	7	5	"	N.W. by N.	5-6		30.02	60	57	52	65	"	"	6	"	
10	7	5	"	"	5-6		30.04	60	57	51	65	"	"	6	"	Took in f. topt. staysl
11	7	0	"	"	5-6		30.06	60	58	52	64	"	"	4	"	
Noon.	4	5	"	"	4-6		30.06	60	58	52	64	"	"	5	"	

Distance run by Log since preceding Noon 173 knots 2 ~~fathoms.~~ tenths.

Latitude by D. R. at Noon N 30° 59' 39"

Longitude by D. R. at Noon E 140° 58' 00"

Latitude by Observations at Noon⊙ N 30° 38' 33"

Longitude by Chronometer from Forenoon Observations⊙ E 140° 56' 00"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

1035. Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1100 "

Coal consumed during the preceding 24 hours tons 4400 lbs.

Coal remaining on hand at Noon 160 " 880 "

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.															
1	7	0	East	N.W.	5-6		30.06	61	57	52	64	bcq	Cum & Cir cum	5	R.
2	6	4	"	"	5-6		30.04	61	57	52	64	"	"	4	"
3	6	0	"	W.N.W.	4-5		30.03	61	58	52	64	"	"	6	"
4	6	4	"	"	4-5		30.03	62	58	52	64	"	"	5	"
5	5	6	"	N.W.	4		30.05	62	58	52	64	bc	"	5	M.
6	6	0	"	"	4		30.05	62	57	51	65	"	Cir cum Cu. strat	4	"
7	5	6	"	"	4		30.07	63	57	51	65	"	"	4	"
8 30-40 N 141-53 E	6	0	"	"	4		30.09	65	58	52	65	"	Cir cum	6	"
9	6	0	"	N.W. by N.	4		30.11	62	58	52	65	"	"	7	"
10	6	4	"	"	4		30.13	62	57	51	65	"	"	8	"
11	6	5	"	"	4		30.15	62	57	51	64	"	"	8	"
Mid.	6	5	"	"	4		30.15	61	57	51	64	"	"	7	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Tuesday, March 25, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A.M. Cloudy and squally. Strong breeze from N & W. moderating latter part. At 12.15 hauled up starboard clew of mainsail. At 2.50 the starboard fore topgallant sheet carried away: took in the sail and rove off the sheet afresh and set the sail. Aneroid barometer 30.18.

W M Irwin
WMI Lieut

4 to 8. A.M. Cloudy first hour, clear, and pleasant remainder of watch. Moderate breeze occasionally freshening to strong breeze. Moderate sea from direction of wind. At 4 changed course to the East. At 4.40 sighted high land, (Ponafidan Island) bearing S. E. At 6.10 East end of Ponafidan Island bore S¼ W. distant about 15 miles. At end of watch island bore S.W by W ¼ W. At 5.35 took in and unbent fore topgallt sail to repair it, and bent new one. Aneroid barometer 30.25 at end of watch.

Wainwright Kellogg WK Lieut

8. A.M. to Meridian. Weather clear, and pleasant. Breeze fresh in squalls from N W by N. Barometer rising. Rough sea. At noon Ponafidin I. bore W by S. Rove off a new lanyard for the 2d shroud of the port main lower rigging, and set it up. Aneroid barometer 30. 30.

Karl Rohrer, Lieut.

Meridian to 4 P.M. Weather partly cloudy and pleasant. Moderate breeze from Nd and Wd. Barometer falling. Hauled up weather clew of mainsail at 3.00. Aneroid, at end of watch 30.30.

R Rush Lieut

4 to 6. P.M. Pleasant weather. Moderate breeze from N W. Moderate sea. Mustered at quarters at 4.45. At 4.10 set weather clew of mainsail. Aneroid barometer 30. 30.

W M Irwin
WMI Lieut

6 to 8. P.M. Clear and cool. Moderate breeze from N W. Moderate sea. Aneroid barometer 30. 34.

Wainwright Kellogg
WK Lieut

8 P.M to Midnight. Weather clear and pleasant. Moderate breeze from N W. by W. Barometer steady. Moderate sea with an occasional long swell. Aneroid barometer 30. 38.

Karl Rohrer, Lieut

Moon at mid Examined and found to be correct.
Dec 3°. 27' 16" S.
Phase. Last quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Nagasaki, Japan to Ujai I. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	6	0	East	N N W.	4-5		30.14	61	57	51	64	bcq	Cir & cirrcum	7	M	Set fl stays'l & spanker
2	4	8	"	"	4-5		30.14	61	57	51	64	"	"	7	"	
3	4	8	"	N W	4-5		30.14	61	57	51	64	"	"	7	"	Took in spanker
4	4	6	"	"	4-5		30.14	61	57	51	64	"	"	7	"	
5	4	2	"	"	3		30.15	61	57	57	64	bc	Cir cum	6	"	
6	3	6	"	"	2		30.17	61	57	51	64	"	"	5	"	
7	3	0	"	N N W.	2		30.19	61	58	51	64	"	"	4	"	
8	1	0	"	N & E	1		30.21	61	58	57	64	"	"	4	"	
9	0	5	"	Var.	1		30.22	61	59	57	64	"	"	6	S	Set royals. Took in
10	0	5	"	"	1		30.22	61	60	53	64	"	"	5	"	flopt stays'l & jib
11	1	0	"	"	1		30.22	62	62	54	65	"	Cir cum & strat	6	"	Furled mainsail
Noon.	0	5	"	"	1		30.24	62	62	54	65	"	"	7	"	

30-42 N
142-51 E

Distance run by Log since preceding Noon 108 knots 9 ~~fathoms.~~ tenths

Latitude by D. R. at Noon N 30° 40' 31"

Longitude by D. R. at Noon E 143° 03' 00"

Latitude by Observations at Noon ⊙ N 30° 37' 27"

Longitude by Chronometer from Forenoon Observations ⊙ E 142° 52' 00"

Current during the time knots fms. per hour, setting to the

1035 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours " "

Water remaining on hand fit for use at Noon 750 "

Coal consumed during the preceding 24 hours tons 1000 lbs.

Coal remaining on hand at Noon 159 " 2120 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of the sail.
P. M.																
1	0	8	East	S W.	1		30.24	63	62	54	65	bc	Cir & cirrcum	5	S	
2	1	2	"	"	1		30.24	63	62	53	65	"	"	4	"	
3	1	2	"	"	1		30.23	63	62	53	65	"	Cir cum & strat	3	"	
4	1	5	"	"	1		30.22	63	60	53	65	"	"	4	"	
5	1	3	"	"	1		30.20	63	60	53	65	"	"	2	"	
6	0	6	"	"	1		30.17	63	60	53	65	"	"	2	"	
7	1	0	"	"	1		30.19	65	60	53	65	oc	"	0	"	
8	1	4	"	"	1		30.20	65	60	53	65	"	"	0	"	
9	1	5	"	S S E	1		30.20	66	60	54	65	bc	"	1	"	
10	1	0	"	"	1		30.22	67	60	54	65	"	"	1	"	
11	1	0	"	"	1		30.22	67	61	54	65	"	"	1	"	
Mid.	0	5	"	"	1		30.22	65	61	54	65	"	"	1	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday March 26., 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A.M. Weather clear, and pleasant, Moderate breeze from Nd and Wd, falling lighter latter part of watch. Set fore topmast staysail, and spanker, at 12.20. Took in spanker, at 3.00. Aneroid at end of watch 30.37.

Lieut

4 to 8. A.M. Clear and pleasant. Gentle breeze from N.W. hauling to N by E and falling light. Barometer rising. Aneroid barometer 30.43.

W. M. Irwin Lieut

8 A.M to Meridian. Clear bright and pleasant. Light variable airs. Barometer rising slowly latter part of watch. Went to quarters for muster at 9.15. By order of Comd'g Officer, Sandy Buchanan (O Stwd) was given 16 hours extra duty for neglect of duty. At 8.30 crossed royal yards and set royals. At 10.36 furled main sail and put cover on yard and started fires in one boiler to condense. Watch engaged in setting up backstays. Aneroid bar. at end of watch 30.42.

Wainwright Kellogg
WK Lieut

Meridian to 4. P.M. Weather clear, and pleasant. Light airs from S.W. Barometer falling slowly. Commenced, distilling water at 3.30. Sea smooth with an occasional long swell from Nd and Wd. Aneroid bar. 30.40

Karl Rohrer Lieut

4 to 6 P.M. Weather clear and pleasant. Light airs from S.W. Barometer falling. Mustered at quarters at 4.45. Distilling. Aneroid at end of watch 30.41.

Lieut

6 to 8 P.M. Overcast and cloudy. Light airs from S.W. Smooth sea. Aneroid barometer 30.43.

W. M. Irwin
WMI Lieut

8 P.M to Midnight. Cloudy. Cool. Light airs from S.S.E. Smooth sea. Distilling. Aneroid 30.42.

Wainwright Kellogg
WK Lieut

Moon's Decl. Examined and found to be correct.
Dec 1°07'39" N.
Phase. Last quarter.

W. T. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3* Rate, *6* Guns,

Making passage from Nagasaki, Japan, to Ujai I. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	0	5	NE x E	S.E.	0-1		30.22	64	60	53	65	oc	cum & nimb	0	S	All sail except
2	1	5	NE ½ E	"	1-2		30.21	63	60	53	65	ocd	"	0	"	mainsail, and jib
3	1	0	NE x N.	ESE.	1		30.21	63	60	53	65	"	"	0	"	Set f topt-stays'l and
4	1	0	N	NE	1		30.20	63	60	54	65	"	"	0	"	main trysail
5	1	5	S ½ E	E x S.	1	1	30.17	62	60	55	65	"	"	0	"	Took in main trysail
6	3	0	S x E ½ E.	"	2	½	30.17	62	60	55	65	"	"	0	"	Set spanker
7	3	4	S x E.	"	3-5	½	30.17	62	60	56	65	ocqd	"	0	"	
8	2 3	6 0	S x E ½ S. N x E.	East	4-5	¼	30.17	62	60	56	65	"	"	0	"	
9	5	2	"	E x S	4-5	¼	30.18	62	58	55	65	ocq	nimb	0	"	Took in spanker and
10	6	2	NE x N.	"	5-6	¼	30.16	62	57	55	65	"	"	0	"	royals.
11	7	0	NE.	"	5-6	½	30.13	62	57	55	65	"	"	0	"	
Noon.	5	8	NE ½ N	ESE.	5-6	½	30.10	62	57	55	65	"	"	0	"	

N 30°33 E 143°12

Distance run by Log since preceding Noon 54 knots 6 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 30° 54' 51" N

Longitude by D. R. at Noon 143° 23' 05" E

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

1035. Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water *distilled* during the preceding 24 hours 2000 "

Water remaining on hand fit for use at Noon 2400 "

Coal consumed during the preceding 24 hours 2 tons 520 lbs.

Coal remaining on hand at Noon 157 " 1600 "

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	6	7	NE ¼ E	ESE.	5-6	¼	30.06	61	57	56	65	ocqr	nimb	0	S	
2	6	5	NE ¾ E.	SE x E	5-6		30.02	61	58	57	65	"	"	0	"	
3	6	5	NE x E.	"	5-6		29.99	60	58	57	65	"	"	0	"	Took in flying jib
4	6	5	NE ¾ E.	"	5-6		29.97	61	59	58	64	"	"	0	"	& single reef in topsails
5	6	0	NE	"	5-7		29.95	62	59	59	64	ocqrf	"	0	M	
6	5	5	"	"	4-6		29.92	62	59	59	64	"	"	0	"	
7	5	8	NE ¼ E	"	5-6	1	29.92	66	60	60	64	"	"	0	"	
8	5	5	"	ESE.	5-6	1	29.91	66	60	60	64	"	"	0	"	
9	5	0	NE x E.	SE	5-6		29.87	66	62	62	64	ocqrm	"	0	"	
10	7	0	East	S x E	6-7		29.83	66	62	62	64	"	"	0	"	
11	8	4	"	S	5-7		29.79	66	64	64	64	"	"	0	"	Took in Main trysail
Mid.	8	6	"	SSW.	5-7		29.74	66	65	65	64	bcq	cum nimb	3	"	

N 31°25 E 144°00

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Thursday March 27, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and cloudy. Light drizzling rain. Breeze light in force and varying in direction from S.E to N.E. Wore ship at 3.30. Distilling water. Aneroid barometer 30.38.

Karl Rohrer, KR Lieut

4 to 8 AM. Weather overcast with drizzling rain. Barometer ~~steady~~. Light breeze from Ed, freshening latter part of watch. Set spanker at 4.20. Wore ship at 7.30. Aneroid at end of watch 30.39.

Lieut

8 AM to Meridian. Overcast and rainy. Falling barometer. At 8.20 took in spanker. At 9.00 took in royals. By order of Comdg Officer released Thomas Noon, 2CF from confinement. Aneroid barometer 30.32

W. M. Irwin Lieut

Meridian to 4 PM. Rainy. Overcast. Wind squally from ESE to SE by E. strong in force. At 2.25 stopped distilling. At 2.55 took in topgallantsails and took a single reef in topsails and set topgallantsails again. Ship full and by at end of watch heading NE by E. Aneroid barometer 30.22

Wainwright Kellogg WK Lieut

4 to 6. P.M. Weather overcast, squally, rainy and threatening. Breeze stiff in squalls from SE by E. Barometer falling. Moderate sea running. Sent down royal yards. Aneroid barometer 30.19.

Karl Rohrer Lieut

6 to 8. PM. Weather overcast and squally with heavy rain. Wind from Sd and Ed. Barometer falling. Aneroid at end of watch 30.18.

Lieut

8 PM to Midnight. Overcast cloudy and rainy with light mist early part. partly clearing last hour. Strong breeze with frequent squalls from SE hauling to SSW. Moderate sea. At 11.20 took in main trysail. Aneroid 30.07.

W. M. Irwin
Irwin Lieut

Moon Lnid
Dec 5° 44' 32" N
Phase. New moon.

Examined and found to be correct.

W. T. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan, to Ujai I. Marshall Group

31-31 N 145-02 E

n 31°31' L 145°09

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	8	0	East	S.W.	5.6		29.74	66	65	60	64	ocgr	nimb	0	S	
2	8	0	〃	〃	5.6		29.74	65	64	64	64	〃	〃	0	〃	
3	7	6	〃	〃	5.6		29.74	65	63	62	63	〃	〃	0	〃	
4	7	0	〃	〃	4-5		29.74	65	63	62	63	〃	〃	0	〃	
5	5	0	〃	〃	3-4		29.74	65	63	62	63	ocgp	cum & nimb	0	M	
6	5	5	〃	〃	4		29.76	64	63	63	64	ocd	〃	0	〃	Shook reefs out of top-
7	5	5	〃	〃	4		29.76	64	63	63	64	bc	cir cum nimb	3	〃	sails, set royals and
8	6	0	〃	〃	4		29.76	64	63	63	64	〃	〃	4	〃	mainsail.
9	5	8	〃	〃	4		29.78	65	63	63	64	oc	cum & circum	0	〃	
10	6	0	〃	〃	4		29.78	66	63	63	64	ocd	〃	0	〃	
11	6	5	〃	〃	5		29.78	66	63	62	64	ocr	〃	0	〃	
Noon.	5	0	〃	〃	5		29.78	66	63	62	64	ocd	〃	0	〃	

Distance run by Log since preceding Noon	153 knots 9 ~~fathoms.~~ tenths
Latitude by D. R. at Noon	31° 30' 51" N
Longitude by D. R. at Noon	146° 00' 00" E
Latitude by Observations at Noon ⊙	° ' "
Longitude by Chronometer from Forenoon Observations ⊙	145° 38' 00" E
Current during the time knots fms. per hour, setting to the	
1036 Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "
Variation of the Compass by Azimuth ⊙ observed at	° ' "
Water expended during the preceding 24 hours	300 gallons.
Water distilled during the preceding 24 hours	700 "
Water remaining on hand fit for use at Noon	2800 "
Coal consumed during the preceding 24 hours	tons 2200 lbs.
Coal remaining on hand at Noon	156 " 1640 "

n 31°24 L 146°19

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	6	2	E × S.	WSW	4		29.77	66	64	63	64	ocd	Cumi Nimb	0	S	Took in weather clew
2	5	6	〃	W.	3		29.78	66	64	63	64	ocr	〃	0	〃	of mainsail. Took
3	4	6	〃	WNW.	3		29.78	66	64	63	64	ocd	〃	0	〃	in & reset lee clew.
4	4	6	〃	NW × W.	3		29.78	66	64	63	64	ocr	〃	0	〃	
5	3	0	〃	〃	3		29.78	66	62	61	64	〃	nimb	0	〃	
6	3	4	〃	〃	3		29.78	66	61	60	64	〃	〃	0	〃	
7	3	5	〃	NW.	3		29.81	67	61	60	64	〃	Cumi Nimb	0	〃	
8	5	0	〃	〃	3		29.85	67	61	60	64	〃	〃	0	〃	
9	7	5	〃	N.	5-6		29.86	67	59	57	64	ocgd	〃	0	〃	Set jib
10	6	4	〃	N × E	5-6		29.86	65	59	57	64	ocgr	〃	0	〃	Took in and reset
11	6	0	〃	N.	5-6		29.86	64	58	57	64	〃	〃	0	〃	mainsail & royals
Mid.	6	3	〃	N × W.	5-6		29.86	64	58	57	64	ocgd	〃	0	〃	

Longitude by Chronometer from Afternoon Observations ⊙	° ' "
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Friday. March 28th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast, Disagreeable, Heavy rain entire watch. Strong breeze from S W first three hours of watch, moderating last hour. Moderate sea, Aneroid 30.07.

Wainwright Kellogg (Jg) Lieut

4 to 8 A.M. Weather wet and squally in first part of watch, clearing up somewhat in latter part. Breeze gentle to moderate in force from S. W. At 5 shook reefs out of topsails, sent up the royal yards and set the royals, and single reefed mainsail. Barometer rising slowly. Moderate sea, with an occasional swell from the Sd. Aneroid barometer 30.10

Hart Hobur, (Jg) Lieut

8 A.M. to Meridian. Weather overcast with drizzling rain. Gentle to moderate breeze from S W. Barometer steady. Aneroid at end of watch 30.08.

Lieut

Meridian to 4 P.M. Rainy and disagreeable. Wind in moderate force hauling from S W to N W by W. Smooth sea. Aneroid 30.08.

W.M. Irwin Lieut

4 to 6 P.M. Overcast. Drizzling rain. Light breeze from N W by W. Smooth sea, Aneroid 30.08.

Wainwright Kellogg Lieut

6 to 8 P.M. Weather overcast and rainy. Gentle breeze from N W. Barometer rising. Smooth sea, Aneroid Barometer 30.13.

Hart Hobur, Lieut

8 P.M. to Midnight. Weather overcast and wet. Wind variable and fitful. Barometer steady. At 8.20 set weather clew of mainsail, At 8.35 set jib, At 10.20 took in mainsail and royals to a squall. Reset them at 10.40. Aneroid at end of watch 30.16.

Lieut

Moon l mid Examined and found to be correct.

Dec 10° 03' 48" N.

Phase. New moon

W. H. Parker
Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki. Japan to Ujao I. Marshall Group.

	Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	1	5	2	E by S	N N W	3		29.86	63	58	54	64	bcd	Cum Nimb	11	S	All sq. sail, jib and
	2	4	8	"	"	3		29.86	63	58	54	64	ocd	"	0	"	fore topt staysail
	3	3	0	"	"	2		29.86	63	58	54	64	"	"	0	"	Took in royals, jib and
	4	1	0	"	"	0-1		29.86	63	58	54	64	"	"	0	"	mainsail.
	5	1	0	"	W by N	1		29.88	62	59	57	64	bc	Cir Cum Strat	2	"	Set royals and fly jib
	6	3	0	"	"	2		29.91	61	60	58	64	"	"	4	"	M. topgall. and both
	7	3	0	"	"	2		29.95	61	60	58	64	"	"	4	"	topmast stunsails
N 31°21'	8	3	6	"	"	3		29.99	62	61	58	64	"	Cir Cum	5	"	
E 147°10'	9	4	0	"	"	4		30.00	62	61	58	64	"	"	7	"	
	10	4	5	"	"	4		30.00	62	61	58	64	"	Cum Nimb Cir Cum	7	"	
	11	4	5	"	"	4		30.01	62	62	59	65	"	"	5	"	
	Noon.	2	0	"	"	4		30.01	62	62	59	65	"	"	6	"	

Distance run by Log since preceding Noon 101 knots 7 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 31° 11' 03" N

Longitude by D. R. at Noon 147° 34' 00" E

Latitude by Observations at Noon ⊙ 31° 19' 17" N

Longitude by Chronometer from Forenoon Observations ⊙ 147° 27' 00" E

1036 Current during the time knots fms. per hour, setting to the ——

Variation of the Compass by Amplitude ⊙ observed at Sunrise —° ' "

Variation of the Compass by Azimuth ⊙ observed at °—— "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2450 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 156 " 1240 "

	Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.																Set all port stunsails
	1	4	2	E by S	W x N.	4		30.00	63	63	59	65	bc	Cir Cum	9	S.	Took in jib & fore
	2	4	2	"	"	4		29.98	64	63	59	65	"	"	9	"	topt stayl. port lower
	3	4	6	"	"	4		29.97	64	64	59	65	"	"	9	"	and topt stunsails
	4	4	6	"	"	4		29.97	65	64	59	65	"	"	9	"	Set port clew of m. sail
	5	4	6	"	"	3		30.00	65	64	59	65	"	Cir	7	"	Set port lower & fore
	6	4	6	"	"	3		30.00	65	64	59	65	"	Cir Cum	4	"	topt stunsails. Took
N	7	4	6	"	W N W.	3		30.01	65	63	59	65	"	"	7	"	in stbd topgall stunsail
31°10 E	8	0	0	"	N x E.	3		30.02	65	63	59	65	"	"	8	"	Took in port stunsails
148°13	9	4	0	"	"	3		30.02	65	61	57	64	"	Cirrus	9	"	Set headsails, spanker
	10	4	0	"	"	3		30.02	65	60	56	64	"	"	8	"	and mainsail.
	11	2	0	"	"	3		30.02	64	60	56	64	"	"	9	"	
	Mid.	2	5	"	N N E.	3		30.02	64	60	57	64	"	Cir Cir Cum	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p. m 1° 00' 00" E

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday March 29th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A.M. Overcast, and cloudy with light, drizzling rain first two hours. Light breeze from N.W. gradually dying away. At 3.46 took in royals jib, and mainsail. Aneroid Barometer 30.16.

W.M. Irwin Lieut

4 to 8 A.M. Clear, and pleasant. Light freshening breeze from W by N. Smooth sea. At 5. set royals and flying jib. At 7 set main topgallant stunsail, and ~~both~~ fore topmast stunsails. Aneroid 30.20.

Wainwright Kellogg Lieut

8 A.M to Meridian. Weather clear and pleasant. Moderate breeze from W by N. Barometer steady. Aired bedding. Sea smooth. By order of Commanding Officer released John McCann, (2d Cl. Fire) from confinement. Aneroid barometer 30.24.

Karl Rohrer Lieut

Meridian to 4 P.M. Weather clear, and pleasant. Gentle breeze from W by N. Barometer falling. At 12.20 set all port stunsails. At 1.20 took in jib, and fore topmast staysail. At 1.50 took in port lower and topmast stunsails, set port clew of mainsail. Aneroid, at end of watch 30.22.

Lieut

4 to 6. P.M. Pleasant weather, light breeze from W by N. Smooth sea. Mustered at quarters, at 4.45. At 4.15 set port lower, and fore topmast stunsails. At 6. took in starboard topgallant stunsails. Aneroid bar. 30.24

W.M. Irwin Lieut

6 to 8. P.M. Clear, and pleasant. Light breeze, gradually hauling from W by N to N by E. At 7. took in all port stunsails and set head sails, and spanker. Set mainsail. Aneroid 30.25.

Wainwright Kellogg Lieut

8. P.M. to Midnight. Clear and pleasant. Light to gentle breeze from N by E to N N E. Barometer steady. Sea smooth. Aneroid barometer 30.26.

Karl Rohrer, Jr. Lieut

Moon's mid. Examined and found to be correct.
Dec. 13° 44' 36" N.
Phase. New moon.

W. H. Parker
Lieut. & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan to Ujai Islds, Marshall Islds

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	4	2	ESE.	NE.	3		30.01	63	60	57	64	bc	Cir cum	8	S	Plain sail to royals except M trysail & spanker
2	4	2	SE × E ½ E.	"	3		29.99	63	60	56	64	"	"	8	"	
3	4	0	"	"	3		29.98	63	60	56	64	"	"	6	"	
4	3	3	SE × E.	"	3		29.97	63	60	56	64	"	"	8	"	
5	2	6	"	"	3		29.98	63	60	57	64	"	"	5	"	
6	2	4	ESE	"	2		29.98	63	60	57	64	"	"	5	"	
7	2	0	E × S	NE × E.	2		29.98	63	60	57	64	"	"	5	"	Set main trysail
30°47 n 8	0	6	"	"	1		30.01	63	60	57	64	"	"	4	"	
148°42 E 9	No steerage way			Variable	0-1		30.04	62	62	57	64	"	Cir cum strat	8	"	
10	"		"	"	0-1		30.04	62	64	59	64	"	"	8	"	
11	2	0	E × S	"	0-1		30.04	62	64	59	64	"	"	8	"	Set stbd stunsails
Noon.	3	0	"	WSW.	2		30.01	62	65	59	64	"	"	7	"	

Distance run by Log since preceding Noon 77 knots 2 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 30° 56' 20" n

Longitude by D. R. at Noon 148° 58' 00" E

Latitude by Observations at Noon ⊙ 30° 46' 10" n

Longitude by Chronometer from Forenoon Observations ⊙ 148° 48' 00" E

Current during the time 0.5 knots fms. per hour, setting to the S 39° E

103b Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2100 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 156" 840 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																Hauled down flying jib, & topt staysail
1	5	5	E × S.	WSW.	4		30.01	63	65	59	65	bc	cir & cir cum	4	S	Took in all sail on main except weather clew of mainsail
2	6	5	"	"	4-5		30.02	65	66	59	65	"	Cir cum nimb	5	"	
3	6	5	ESE ½ E.	NW.	5		30.02	64	64	59	65	"	"	6	"	
4	6	0	E × S.	"	5		30.03	64	63	58	65	"	Cir cum & cum	7	"	
5	5	8	"	"	4		30.03	65	62	57	65	"	"	7	"	Set all sail on main to royals.
6	5	8	"	"	4		30.01	65	62	57	65	"	"	6	"	
7	6	0	"	NW × W.	4		30.01	65	62	57	65	"	"	6	"	
30°36 n 8	6	6	"	"	4		30.03	67	62	56	65	"	"	5	"	
149°50 E 9	6	2	"	WNW.	4		30.05	67	62	56	64	"	Cir cum	5	"	
30-35 n 10	6	4	"	"	4		30.08	67	61	55	64	"	"	6	"	
150° E 11	6	2	"	"	4		30.09	66	61	55	64	"	"	6	"	
Mid.	6	4	"	"	4		30.09	65	61	55	64	"	"	6	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p.m. 1° 30' E

under the command of Commander A. H. McCormick, U. S. Navy;

Sunday March 30th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Gentle breeze from N.E. Barometer falling. Aneroid at end of watch 30.23. Steering "full & by"

C P Rees Lieut

4 to 8 A.M. Clear and pleasant. Light breeze from N.E. veering to N.E. by E. Smooth sea. At 7⁰⁰ set maintrysail. Aneroid barometer 30.22.

W. M. Irwin Lieut

8 A.M. to Meridian Clear bright and pleasant. Calm to light variable airs first half of watch. Light W.S.W. latter part of watch. At 9.15 Commanding Officer inspected ship and crew at quarters. At 11³⁰ set all starboard stunsails. Aneroid at end of watch 30.22.

Wainwright Kellogg
WK Lieut

Meridian to 4 P.M. Weather clear and pleasant. Breeze moderate to fresh from W.S.W. to N.W. Barometer rising. Found the maintopsail yard sprung on top on starboard quarter, and got it on the cap, and began to fish it. Took in starboard stunsails, and braced up a point by the starboard braces to a shift of wind. Aneroid barometer 30.23.

Karl Rohrer KR Lieut

4 to 6 P.M. Weather clear and pleasant. Gentle to moderate breeze from N.W. Barometer falling. Finished fishing maintopsail yard, bent maintopsail and at 5.15 made sail on main to royal. Aneroid at end of watch 30.25.

C P Rees Lieut

6 to 8 P.M. Pleasant weather. Moderate breeze from N.W. by W. Aneroid barometer 30.28.

W. M. Irwin
WMI Lieut

8 P.M. to Midnight Clear and cool. Moderate breeze from W.N.W. Smooth sea. Aneroid 30.30.

Wainwright Kellogg
WK Lieut

Moon I mid Examined and found to be correct.
Dec 16° 32′ 14″ N.
Phase, New moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki Japan to Ujai Isld. Marshall Group

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	7	0	E by S	N W	5		30.09	63	61	54	64	bc	cir cum	6	S	Sq sail and jibs
2	6	5	"	N W x W.	5		30.09	63	61	54	64	"	cir	8	"	
3	6	0	"	W N W.	5		30.09	63	60	54	64	"	cir cum	7	"	
4	5	5	"	W x N.	4		30.09	63	61	58	64	"	"	6	"	Hauled up mainsail
5	6	0	"	N W x W.	4		30.09	63	62	56	64	"	cir cum & cumuls	5	"	
6	6	5	"	"	5		30.10	63	62	56	64	"	"	4	"	
7	6	2	"	"	5		30.12	63	62	56	64	"	cir cum	7	"	Set wthr clew of M sail
30°17' n 151°07' E 8	5	3	"	"	4		30.12	63	62	56	64	"	"	4	"	
9	5	8	"	"	4		30.14	65	62	56	64	"	"	5	"	
10	5	6	"	"	3		30.15	65	65	57	64	"	"	5	"	
11	5	0	"	"	3		30.17	65	64	57	64	"	"	6	"	
Noon.	4	6	"	"	3		30.20	66	64	57	64	"	"	6	"	

Distance run by Log since preceding Noon 143 knots 9 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 30° 16' 00" n

Longitude by D. R. at Noon 151° 31' 00" E

Latitude by Observations at Noon ⊙ 30° 13' 00" n

Longitude by Chronometer from Forenoon Observations ⊙ 151° 31' 00" E

Current during the time knots fms. per hour, setting to the ——

1037 Variation of the Compass by Amplitude ⊙ observed at Sunrise —°—' "

Variation of the Compass by Azimuth ⊙ observed at —°—' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1750 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 156 " 440 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	4	5	E by S.	N W x W	3		30.20	66	65	57	65	bc	cir cum	8	S	
2	4	6	"	"	3-4		30.20	66	65	57	65	"	"	8	"	Hauled down jibs
3	5	0	"	N W.	4		30.20	65	64	57	65	"	"	8	"	
4	5	5	"	"	4		30.20	65	64	57	65	"	"	8	"	
5	5	5	"	N by W.	4		30.22	65	63	56	65	"	"	6	"	Set flying jib and fore
6	6	0	E S E ¾ E.	N.	5		30.22	65	62	58	65	"	"	5	"	top stay sl & weather
7	7	0	E by S.	N N E	5		30.23	65	61	57	65	"	"	6	"	Clew of main sail
30°02 n 152°21 E 8	6	0	"	"	5		30.24	65	61	56	65	"	cum & cir cum	5	"	Set spanker
9	5	8	"	N E x N.	5		30.27	65	61	57	65	"	"	2	"	
10	5	4	E x E.	N E ½ N.	5		30.30	66	62	57	65	"	"	5	"	
11	6	4	S E x E ½ E.	N E	5-6		30.32	65	61	57	65	bcq	"	3	"	
30°N 152°30 Mid.	7	4	"	"	5-6		30.32	65	61	57	64	"	"	3	"	

Longitude by Chronometer from Afternoon Observations ⊙ 151° 31' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p. m. 2° E "

under the command of Commander A. H. McCormick, U. S. Navy;

Monday March 31st, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Breeze moderate to fresh from N W to W by N. Barometer steady. Aneroid barometer 30.31.

Karl Rohrer, Lieut

4 to 8 A.M. Weather partly cloudy and pleasant. Moderate breeze from N W by W. Barometer rising. Set stbd clew of mainsail at 6.08. Aneroid at end of watch 30.38.

Lieut

8 A.M to Meridian. Clear and pleasant. Gentle winds from N W by W. Barometer rising. At 9.15 went to quarters and drilled divisions as per routine. At 9.10 rallied around the mainmast. Bent main trysail. By order of Commanding Officer confined Sandy Buchanan, O.S. in double irons for five days for insolence to Officer of Deck. Aneroid at end of watch 30.40.

W. M. Irwin Lieut

Meridian to 4 P.M. Clear and pleasant with gentle to moderate breeze from N W by W and N. W. At 1.30 hauled down jib. Aneroid barometer at end of watch 30.40.

Wainwright Kellogg
WK
Lieut

4 to 6. P.M. Weather clear and pleasant. Breeze moderate to fresh from N by W to N. Barometer steady. Clouds rising to Nd and moving to Sd. Braced sharp up on port tack to shift of wind. Aneroid barometer 3.44.

Karl Rohrer, Lieut

6 to 8. P.M. Weather partly cloudy and pleasant. Moderate breeze from N. N. E. Barometer rising. Aneroid at end of watch 30.45.

Lieut

8 P.M to Midnight. Pleasant weather. Fresh breeze from N E by E to N E. Aneroid barometer 30.48.

W M Irwin
wmi Lieut

Moon Quid Examined and found to be correct.
Dec. 18° 12' 25" N.
Phase. New moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

making passage from Nagasaki. Japan to Ujai I. Marshall Group.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	1	6	4	S E ¾ E	N E	5		30.32	63	60	56	64	bc	Ci & Cum	5	S	
	2	6	5	"	"	5		30.32	63	60	56	64	"	"	5	"	
	3	6	6	S E × E.	"	5		30.32	63	60	56	64	"	"	6	"	
	4	7	0	"	"	5		30.30	63	60	56	64	"	"	6	"	
	5	7	0	S E ½ E.	N E × E.	5		30.30	62	61	56	66	"	Ci & Cir Cum	7	"	
	6	7	0	S E.	"	5		30.30	62	61	57	66	"	"	7	"	
n 29°23	7	3	5	S S E ½ E.	E × N.	5		30.30	62	62	57	66	"	"	4	"	
t 153°07	8	6	0	N.	E N E.	5		30.32	62	62	57	66	"	"	5	"	
	9	5	4	"	"	5		30.31	62	62	57	66	"	"	5	"	
	10	5	4	S × E ¾ E.	E × N.	5		30.31	64	62	58	66	"	"	5	"	
	11	2 2	0 0	S × E N ½ E	"	5		30.28	65	63	63	66	"	"	4	"	
	Noon.	5	0	"	"	5		30.28	65	63	58	66	"	"	4	"	

Distance run by Log since preceding Noon 138 knots 9 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 29° 32' 27" N

Longitude by D. R. at Noon 153° 29' 00" E

Latitude by Observations at Noon ⊙ 29° 27' 11" N

Longitude by Chronometer from Forenoon Observations ⊙ 153° 11' 00" E

Current during the time .7 knots ~~fms. per hour~~, setting to the S 69° W

1057 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 a. m. 2° 00' E"

Water expended during the preceding 24 hours 350. gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1400 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 156 " 40 "

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.																
n 30°00	1	5	8	N ¾ E	E × N.	5		30.27	65	64	59	66	bc	Ci Cum & Cum	4	S	
E 153°12	2	6	2	N × E	"	5		30.26	65	64	59	66	"	"	2	"	
	3	6	0	"	"	5		30.24	65	64	59	66	"	"	2	"	Took in royals and
	4	6	2	N ½ E.	"	5		30.23	65	64	59	66	"	"	2	"	flying jib.
	5	6	0	N ¾ E.	"	5		30.23	65	62	58	66	"	"	5	"	
	6	6	0	N × E ½ E.	E	5		30.23	64	62	58	65	"	Cum str & Cum	2	"	
	7	6	0	"	E × S.	4-5		30.23	63	61	58	65	ocd	Cum & nimb	0	M	
n 30°13	8	6	0	N N E.	"	4-5		30.23	63	61	59	65	ocq	"	0	"	
E 153.19	9	6	5	N N E ½ E.	E S E.	5-6	1	30.20	68	62	59	65	ocqd	"	0	"	
	10	6	0	N E ½ E	S E × E.	5-6	1	30.19	68	62	60	65	"	"	0	"	Took in topgallt
	11	4	0	N E × E ¾ E	S E	5-6	1½	30.17	66	62	60	65	"	"	0	"	jib and spanker
	Mid.	3	0	E N E ½ E	S E × S.	5-6	1½	30.15	66	62	60	65	"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ 153° 16' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;
Tuesday April 1st, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light to moderate breeze from N.E. Smooth sea. Aneroid 30.50.

Wainwright Kellogg wk Lieut

4 to 8 A.M. Weather clear and pleasant. Fresh breeze from N.E. to N by E. Barometer steady. Sea smooth. Clouds rising to the Eastd and passing to the Westd. At 6.30 tacked ship. Aneroid barometer 30.52.

Karl Rohrer Lieut

8 A.M. to Meridian. Weather partly cloudy and pleasant. Moderate breeze from E by N. Barometer falling. Tacked ship to Sd at 8.45 and to Nd at 10.45. Mustered at quarters at 9.30 and exercised 2d and 3d divisions at great guns, Marine guard at 3 in Rifle, Powder division at passing powder and 1st division orally. Aneroid at end of watch 30.50.

Lieut

Meridian to 4 P.M. Fair with wind generally from E by N. hauling and veering a point or two at intervals. Falling barometer. At 2.45 furled royals and flying jib. Issued small stores and served out clothing as per requisition for April. Aneroid barometer 30.44.

N. M. [illegible] Lieut

4 to 6 P.M. Cloudy. Cool. Moderate to fresh breeze from E by N. to E. Smooth sea. At 4.45 mustered at quarters. At 4.58 took single reef in topsails and set topgallantsails over them. Aneroid steady at 30.45.

Wainwright Kellogg wk Lieut

6 to 8 P. Weather overcast and cloudy. Light drizzling rain first part of watch. Moderate to fresh breeze from E by S. Moderate sea. Barometer steady. Aneroid at end of watch 30. 45.

Karl Rohrer KR Lieut

8 P.M. to Midnight. Weather overcast squally and rainy. Barometer falling. Wind hauling to Sd. Took in topgallantsails, jib & spanker at 9.55. Set jib and spanker at 10.50. Aneroid at end of watch 30.40.

Lieut

Moon l mid Examined and found to be correct.
Dec. 18°41'45"N
Phase, New moon

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Nagasaki. Japan. to Ujai Isld. Marshall Group

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	4	0	ENE½E	SE×S	5-6	1	30.11	66	63	61	66	ocgd	nimb	0	M	Single reefed topsails
2	4	0	E¾N.	SSE	5-6	1	30.10	66	63	61	66	"	"	0	"	courses, jib, fore
3	4	0	"	"	4-6	1	30.07	66	63	61	66	ocgs	"	0	"	topstaysl & spanker
4	4	0	E.	S×E	4-6	1	30.06	66	63	61	66	"	"	0	"	
5	4	0	E½S	"	4-5		30.06	65	63	62	65	ocgd	"	0	"	Shook reef out of
6	6	4	E½N.	SSE	5-6		30.05	65	64	63	65	"	"	0	"	topsails, set topgalls
7	6	4	E×N.	"	5-6		30.05	65	65	64	65	"	Cumu nimb	0	"	
8	6	4	E½S.	S×E	5-6		30.05	66	65	64	65	"	"	0	"	
9	6	5	E×S	S.	5-6	1	30.05	66	65	65	64	ocgp.	"	0	"	
10	7	5	"	"	5-6	1	30.04	66	65	65	64	"	"	0	"	
11	7	5	E	"	5-6		30.04	67	66	65	64	ocg	"	0	"	Took in topgalls
Noon.	7	5	"	"	5-6		30.04	67	66	65	64	ocgp	"	0	"	

Distance run by Log since preceding Noon 135 knots 9 tenths ~~fathoms.~~

Latitude by D. R. at Noon 30° 34' 11" N

Longitude by D. R. at Noon 154° 49' 10" E

Latitude by Observations at Noon ⊙ 30° 42' 40" N

Longitude by Chronometer from Forenoon Observations ⊙ 154° 20' 00" E

Current during the time 26 knots ~~fms. per hour,~~ setting to the N 69° W

1037 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 a. m. 3° 30' E

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1100 "

Coal consumed during the preceding 24 hours tons 1400 lbs.

Coal remaining on hand at Noon 155 " 1880 "

N 30°40
155°00'
N 30.40 E 155°23

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	6	6	E	S.	5-6		30.01	68	66	65	64	ocg	Cum nimb	0	M	
2	6	0	"	"	5-6		30.00	68	66	65	64	ocgd	"	0	"	
3	6	4	"	"	5-6		30.00	68	66	65	64	"	"	0	"	
4	6	5	"	"	5-6		30.00	68	66	65	64	"	"	0	"	
5	7	0	"	"	5-6		29.98	68	66	66	64	bcg	Cir cum Cum nimb	1	"	
6	7	4	"	"	5-6		29.95	68	66	66	64	"	"	1	"	
7	7	0	"	"	5-6		29.96	69	68	66	64	ocg	"	0	"	Took one reef in topsails
8	7	4	"	"	5-6		29.96	72	68	66	64	ocgd	Cum nimb	0	"	and one in jib
9	7	0	"	S×W.	4-6		29.98	71	67	66	66	ocgp.	"	0	"	
10	6	5	"	"	4-6		30.00	71	67	66	66	"	"	0	"	
11	7	0	"	"	4-6		30.00	71	66	66	66	ocgr	"	0	"	Took in spanker
Mid.	6	5	"	"	4-6		30.00	71	66	66	66	ocgp	"	0	"	set topgalls.

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;
Wednesday, April 2d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy with light drizzling rain. Fresh breeze from S E by S. hauling to S+E: occasional squalls. Aneroid barometer 30. 31.

W.M. Irwin wmi Lieut

4 to 8 A.M. Overcast. Occasional light showers of rain. Fresh breeze from S. S. E to S by E. Moderate sea. At 5. shook reef out of topsails and set topgallantsails. Aneroid 30. 31.

Wainwright Kellogg WK Lieut

8 A M to Meridian. Weather overcast cloudy and squally, with showers of rain at intervals. Moderate sea running which ship rides easily. Breeze stiff in squalls from S. Barometer steady. By order of Captain changed course to E at 10. Sent down royal yards and took in and furled topgallantsails. Aneroid barometer 30. 28.

Karl Rohrer KR, Lieut

Meridian to 4. P.M. Weather overcast and squally with light drizzling rain. Barometer falling. Wind from So. Steering a course E. (pc)
Aneroid, at end of watch 30. 23.

C. Rees CR Lieut

4 to 6. P.M. Cloudy and squally. Fresh breeze from South. Moderate sea. At 4. 45 mustered at quarters. Aneroid barometer 30. 24.

W. M. Irwin Lieut

6 to 8. P.M. Cloudy Pleasant. Strong breeze from South. Moderate sea. At 6. 50 took single reef in topsails and reef in jib. Aneroid 30. 25.

Wainwright Kellogg WK Lieut

8 P.M to Midnight. Overcast, cloudy. squally and wet. Breeze stiff in squalls from S by W. Barometer steady. Moderate sea which ship rides easily. Took in spanker to ease helm. Set topgallantsails. Aneroid barometer 30. 26

Karl Rohrer KR Lieut

Moon Lmid Examined and found to be correct.
Dec 18°03'02". N
Phase, New moon

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Nagasaki. Japan to Ujae I. Marshall Group.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	1	7	3	East	South	5-6		30.00	69	66	65	66	ocgd	Cum & nimb	0	M	
	2	7	8	"	"	5-7		29.98	68	65	65	66	"	"	0	"	
	3	7	7	"	S by W.	5-6		29.98	67	65	65	66	"	"	0	"	
	4	6	5	"	South	5-6		29.96	67	65	65	66	ocgd	"	0	"	
	5	8	0	"	"	5-7		29.96	68	66	66	66	"	"	0	"	
	6	7	4	"	"	4-6		29.98	68	66	66	66	"	"	0	"	Took in topgallts
	7	7	0	"	"	4-6		29.99	68	66	66	66	"	"	0	"	
n 30°34 E	8	8	0	"	"	4-6		30.01	68	66	66	66	"	"	0	"	
157°04	9	7	8	"	"	5-6		30.01	68	67	66	66	"	"	0	"	
	10	7	6	"	"	5-6		30.01	68	67	66	66	"	"	0	"	
	11	7	0	"	"	5-7		30.01	68	67	66	66	"	"	0	"	Took in mainsail and
	Noon.	4	0	"	"	5-7		30.01	68	67	66	66	"	"	0	"	jib. Set main trysail

Distance run by Log since preceding Noon 167 knots 4 tenths ~~fathoms.~~

Latitude by D. R. at Noon 30°31'00" N

Longitude by D. R. at Noon 157°35'00" E

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

1038 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 850 "

Coal consumed during the preceding 24 hours tons 4 00 lbs.

Coal remaining on hand at Noon 155 " 1480 "

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.																
	1	4	0	E by S	S.W	4-6		30.01	68	66	66	64	ocgd	Cum & nimb	0	M	Took in main trysail
	2	3	5	E.	"	3-5		30.01	67	65	65	64	ocgd	"	0	"	Shook reef out of foresail
	3	1 1	5 0	SE½E.	N.W.	2		30.02	67	64	63	63	ocd	"	0	S	and topsails. Set mainsail
	4	1	0	"	"	1-2		30.03	66	62	63	63	"	"	0	"	
	5	3	0	"	N.	3-4		30.07	66	61	61	63	"	"	0	"	Shook reef out of topsails
	6	5	0	"	NNE	3-5		30.10	66	60	60	63	ocgd	"	0	"	Set topgallantsails
	7	6	0	"	NE.	4-6		30.13	66	60	59	63	"	"	0	"	
n 30°17	8	5	8	"	"	4-5		30.18	66	60	59	63	"	"	0	"	
E 158°05	9	7	4	"	"	5-6		30.20	66	59	59	63	"	"	0	M	
	10	7	6	"	"	5-6		30.21	66	59	58	63	"	"	0	"	
n 30°00	11	8	2	"	"	5-6		30.21	65	59	58	63	"	"	0	"	
E 158°24	Mid.	8	0	"	"	5-6		30.22	63	59	58	63	"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;
Thursday April 3d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast, squally and rainy. Barometer falling. Wind from Sd hauling to Sd and Wd latter part of watch. Aneroid, at end of watch 30.22.

Lieut

4 to 8 A.M. Overcast and cloudy with heavy rain. Strong wind from S by W. to South with frequent squalls. At 5.00 took in and furled topgallantsails. Aneroid barometer 30.26.

W. M. Irwin
comd Lieut

8 A.M to Meridian. Rainy and disagreeable. Fresh winds from South first part of watch, increasing to moderate gale latter part with frequent strong squalls. Sea moderate. Steady barometer. At 10.35 took a second reef in topsails, and a single reef in foresail, hauled up mainsail, hauled down jib, and set maintrysail. At 11.15 clewed down topsails, hauled out reef tackles and hauled up buntlines. Aneroid at end of watch 30.28.

Wainwright Kellogg
WK Lieut

Meridian to 4 P.M. Weather overcast, cloudy, squally and rainy. Breeze light to fresh in force from SW to NW. At 2.30 the wind coming out from NW. braced the yards around to it, and by order of the Captain put the ship on the course S E by E. Shook one reef out of the topsails, the reef out of the foresail and set the single reefed mainsail. Aneroid barometer 30.28.

Karl Rohrer, Lieut

4 to 6 P.M. Weather overcast squally and rainy. Barometer rising. A moderate breeze sprang up at 4.30 from Nd hauling to Nd and Ed. Shook reefs out of the topsails at 4.50 and set topgallantsails and jib. Aneroid at end of watch 30.37.

Lieut

6 to 8 P.M. Overcast cloudy and rainy. Fresh breeze from N E. Barometer rising. Moderate sea. Aneroid barometer 30.45.

W. M. Irwin Lieut

8 P.M to Midnight. Overcast. Raining during entire watch. Strong breeze from N E. Smooth sea. Aneroid 30.49.

Wainwright Kellogg WK Lieut

Moon (mid) Examined and found to be correct.
Dec 16° 21' 02" N.
Phase, New moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan to Ujai I. Marshall Group.

					WINDS.			BAROMETER.		TEMPERATURE.							
	Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	1	8	0	S E × E.	N. N E	5-6		30.22	62	59	58	63	o c g d	Cum & nimbus	0	S	
	2	8	0	"	"	5-6		30.22	62	59	58	63	"	"	0	"	
	3	8	0	"	"	5-6		30.23	62	58	58	63	"	"	0	"	
	4	8	5	"	"	5-6		30.25	62	58	58	63	"	"	0	"	
	5	9	0	"	N E × N.	6-7		30.28	62	58	58	63	o c g d	"	0	"	
	6	8	2	"	N E.	6-7		30.30	62	58	58	63	o c g	"	0	"	
	7	8	0	"	"	6-7		30.30	62	58	57	63	o c g d	"	0	"	
n 29°15' E 159°31'	8	8	2	"	"	6-7		30.34	62	58	57	63	"	"	0	"	
	9	8	4	"	"	5-6		30.36	62	61	60	63	"	"	0	M	
	10	7	2	S. E.	"	5-6		30.38	62	61	60	63	"	"	0	"	T. T. Stays'l., jib, courses
	11	8	0	"	"	5-6		30.36	65	61	60	66	"	"	0	"	topsails & topgall's
	Noon.	7	0	"	"	5-6		30.35	65	61	60	66	"	"	0	"	

Distance run by Log since preceding Noon 159 knots 7 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 28° 52' 00" N

Longitude by D. R. at Noon 159° 06' 00" E

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

1058 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 200 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 650 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 155 " 1080 "

	P. M.																
n 28°46'	1	7	8	S. E	N E by E	5-6		30.34	63	62	61	66	o c g d	Cum & nimbus	0	S	
E 160°00'	2	7	6	"	"	5-6		30.34	63	62	61	66	"	"	0	"	
	3	8	0	"	"	5-6		30.31	63	62	61	66	"	"	0	"	
	4	7	8	"	"	5-6		30.31	63	62	61	66	"	"	0	"	Took in mainsail
	5	7	5	"	N E.	4-6		30.32	63	62	62	66	"	"	0	"	and set main trysail
	6	6	5	"	N E × E.	4-5		30.33	63	64	63	66	"	"	0	"	
	7	7	0	"	N E	5-6	1/2	30.33	64	64	63	66	"	"	0	"	
n 28°05' E	8	7	6	"	"	5-6	1/2	30.33	64	65	63	66	o c g	"	0	"	
160°37'	9	6	8	"	"	5-6		30.35	66	65	65	66	"	"	0	"	
	10	7	0	"	"	4-6		30.37	66	66	65	66	o c g d	"	0	"	
	11	6	0	"	N E by E	4-6		30.37	66	66	65	66	b c g	Cir Cum & nimbus	2	3	
	Mid.	5	8	"	"	4		30.36	66	66	65	66	"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Friday. April 4th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A.M. Weather overcast squally and rainy. Fresh breeze from N.N.E. Smooth sea. Barometer rising. Aneroid barometer 30.51.

Ward Rohrer, Lieut

4 to 8 A.M. Weather overcast and squally with light drizzling rain. Strong breeze from N E. Barometer rising. Steering a course S E by E. Aneroid at end of watch 30.58.

C. P. Rees Lieut

8 A.M to Meridian. Overcast, squally with light drizzling rain. Fresh N E winds blowing frequently in strong puffs. Barometer rising first part, falling latter part of watch. Moderate sea. At 9.08 changed course to S. E. Ship under Fore topmast staysail and plain sail to topgallantsails except spanker. Aneroid at end of watch 30.60.

W. M. Irwin

comd Lieut

Meridian to 4 P.M. Weather overcast cloudy squally with drizzling rain. Stiff to gentle breeze from N E by E. At 3.25 took in and furled mainsail and set main trysail. At 3.55 roping at head earing of main topgallantsail parted and topgallantsail tore whole length along head. Aneroid barometer 30.55.

Wainwright Kellogg

WK Lieut

4 to 6 P.M. Weather overcast and squally with light drizzling rain. Gentle to fresh breeze from N E to N E by E. Barometer rising. Sea smooth. Unbent main topgallant sail and bent and set a fresh one which giving away in the head was taken in and furled. Aneroid barometer 30.57.

Ward Rohrer Lieut

6 to 8. P.M. Weather overcast and squally with light drizzling rain. Barometer steady. Commenced distilling. Steering a course S. E. Aneroid at end of watch 30.58.

C. P. Rees Lieut

8 P.M to Midnight. Overcast and cloudy with light rain first part, clearing latter part. Moderate breeze with occasional squalls from N E. hauling to N E by E. Aneroid barometer 30.56.

W. M. Irwin Lieut

Moon l mid Examined and found to be correct.
Dec 13° 47' 03. N.
Phase, 1st Qr.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki. Japan to Ujai I. Marshall Group

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	5	0	SE	NE by E	4		30.35	67	67	66	66	bc	Nimb Cir Cum	5	S	
2	5	0	"	"	4		30.34	67	67	66	66	"	"	5	"	
3	5	0	"	"	4		30.34	67	67	66	66	"	"	5	"	
4	5	2	"	"	4		30.34	67	67	66	66	"	"	5	"	
5	4	5	"	"	3		30.35	67	69	66	70	"	Cir. cirro Cum [illegible]	3	"	Set fly jib. shook ref
6	4	5	"	"	3		30.35	67	68	67	70	"	"	4	"	out of jib. Set fore royal
7	4	5	SE ¼ S.	ENE	3		30.35	67	69	67	70	"	"	4	"	
8	4	0	SE & S.	"	3		30.33	68	70	67	70	"	"	3	"	
9	5	0	"	"	3	½	30.35	69	70	67	70	"	"	4	"	
10	5	0	S by E ¾ E.	East	3	½	30.35	73	70	67	70	"	Cum & Circum	5	"	Took in spanker
11	4	0	S by E	"	3		30.37	75	70	67	70	"	"	4	"	Set spanker
Noon.	3	6	"	"	2		30.37	73	70	66	70	.	"	3	"	

26°57 N
E
161°11

Distance run by Log since preceding Noon 140 knots 7 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 26° 58' 40" N

Longitude by D. R. at Noon 161° 26' 00" E

Latitude by Observations at Noon ⊙ 26° 40' 38" N

Longitude by Chronometer from Forenoon Observations ⊙ 161° 15' 15" E

Current during the time knots fms. per hour, setting to the —

1059 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° — "

Variation of the Compass by Azimuth ⊙ observed at " 6° 00' E"

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 1350 "

Water remaining on hand fit for use at Noon 1700 "

Coal consumed during the preceding 24 hours 1 tons 1120 lbs.

Coal remaining on hand at Noon 153 " 2220 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																Took in main royal
1	4	2	S by E ½ E.	E	3		30.33	75	71	67	70	bc	Ci Cum	3	S	& topgallant sails
2	4	0	SSE ½ E	E & N.	3		30.34	75	71	67	73	"	"	3	.	Set main royal and
3	4	5	SE	NE & E	3		30.35	76	71	67	73	"	"	5	"	topgallantsail
4	5	0	"	"	4		30.35	76	71	67	75	"	"	5	.	
5	6	4	"	"	4		30.32	73	70	67	75	"	"	5	"	
6	7	6	"	"	5		30.31	72	70	66	74	"	"	5	"	
7	7	6	"	"	5		30.31	72	70	66	74	"	Cum	5	"	Set mainsail and
8	8	0	"	"	5		30.30	73	70	67	74	"	Cum. Circum	4	"	took in main top-
9	7	5	"	"	5-6		30.30	73	70	67	74	bcq	"	6	"	sail and spanker
10	6	7	SE ¼ S.	ENE	5-6		30.31	73	70	67	74	"	"	6	"	
11	7	0	S.SE ¾ E.	E & N.	5-6		30.28	72	70	67	74	"	"	7	"	
Mid.	7	5	SE by S.	"	5-6		30.28	72	70	67	74	"	"	7	"	

26°02 N
E
162°21

Longitude by Chronometer from Afternoon Observations ⊙ 161° 13' 15" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Saturday April 5th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moderate breeze from N. E by E. Smooth sea, Distilling. Aneroid 30.52.

Wainwright Kellogg Lieut

4 to 8 A.M. Weather pleasant. Gentle breeze from N E by E to E N E. Barometer falling slowly. Sea smooth. Sent down main topgallant sail for repairs, and rebent it when repaired. Crossed royal yards and set royals and flying jib. Shook reef out of jib, and set spanker. Aneroid barometer 30.57.

Karl Rohrer Lieut

8 A.M. to Meridian. Weather partly cloudy and pleasant, Gentle breeze from Ed. Barometer steady. Took in and repaired spanker at 10.00 and reset it at 10.30. Aneroid, at end of watch 30.52.

C.P. Rees Lieut

Meridian to 4 P.M. Fair and clearing. Light to gentle winds hauling from East to N E by E. Barometer rising slowly. Ship on course latter part of watch. At 1.00 took in main royal and topgallant sails to repair latter sail. Under fore topmast staysail, main trysail, and plain sail to royals except mainsail. Fires under one boiler for condensing purposes. Aneroid at end of watch 30.48.

W. W. Rhoades Lieut

4 to 6. P.M. Weather pleasant. Moderate freshening breeze from N E by E. Smooth sea. At 4.45 mustered at quarters. Aneroid 30.48.

Wainwright Kellogg
WK Lieut

6 to 8. P.M. Clear and pleasant. Fresh breeze from N E by E. Barometer steady. Smooth sea. At 7.10 finished distilling, hauled fires and set mainsail. Aneroid barometer. 30.49.

Karl Rohrer, Lieut

8 P.M. to Midnight. Weather clear and pleasant, Bright moonlight, Fresh breeze from Nd and Ed. Barometer steady. Aneroid at end of watch 30.48.

CPR
C.P. Rees Lieut

Moon l mid Examined and found to be correct.
Dec 10° 33' 37" N.
Phase, 1st Qr.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan to Ujai I. Marshall Group.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	1	7	4	SE×S.	E×N.	5-6		30.25	72	70	67	74	bcq	Cir cum & cum	4	S	Plain sail to royals
	2	7	4	"	"	5-6		30.25	72	70	67	74	"	"	3	"	ex. spanker & main trysail
	3	7	4	SE½S	ENE.	5-6		30.25	72	70	67	74	"	"	5	"	
	4	7	4	"	"	5-6		30.25	72	70	67	74	"	"	5	"	
n 25°00'	5	7	6	"	"	5		30.26	71	70	66	73	bc	Cir cum cum str	4	"	
E 162°12	6	7	4	"	"	5		30.28	71	70	66	73	"	"	5	"	
n	7	7	2	"	"	5		30.28	71	70	66	73	"	"	5	"	
24°45 E	8	7	6	SE×S.	"	5		30.28	71	71	67	73	"	Circum	6	"	
162°25'	9	7	5	SSE½E.	E×N.	5-6		30.28	72	72	67	74	"	cum & circum	6	M	Took in royals
	10	6	5	SE×S.	ENE	5		30.28	72	73	68	75	"	"	5	"	
	11	7	0	"	"	5		30.27	72	73	68	75	"	"	5	"	
	Noon.	6	0	"	"	5		30.26	73	73	68	75	"	"	6	"	Took in flying jib

Distance run by Log since preceding Noon 162 knots 4 tenths ~~fathoms.~~

Latitude by D. R. at Noon 24° 36' 22" N

Longitude by D. R. at Noon 162° 40' 45" E

Latitude by Observations at Noon ⊙ 24° 21' 57" N

Longitude by Chronometer from Forenoon Observations ⊙ 162° 28' 45" E

Current during the time 0.5 knots ~~fms.~~ per hour, setting to the S71°W

1083. Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 1500 "

Water remaining on hand fit for use at Noon 2900 "

Coal consumed during the preceding 24 hours 1 tons 160 lbs.

Coal remaining on hand at Noon 151 " 2040 "

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.																
	1	7	4	SSE½E	ENE	5		30.23	73	72	68	75	bc	cum & circum	6	M.	
	2	6	4	"	"	5		30.21	73	73	68	75	"	"	6	"	
	3	6	0	SSE¼E	"	5		30.18	73	73	68	75	"	"	7	"	
	4	6	2	SE×S.	"	5		30.19	73	73	68	75	"	"	7	"	Set royals & flying jib
	5	6	8	SE¾S.	"	5		30.18	75	72	68	75	"	cir. cum & strat	4	S	
	6	6	6	"	"	5		30.17	75	72	68	75	"	"	4	"	
n	7	6	6	SSE½E.	"	5		30.18	75	72	69	75	"	"	6	"	
23°34 E	8	6	6	SSE	"	5		30.19	75	72	69	75	"	Cir	9	"	
162°50	9	6	0	SSE½E	E×N	4-5		30.19	74	72	69	75	bcq	cir & circum	3	M.	
	10	7	0	"	"	5-6		30.19	74	72	69	75	"	Circum & cum	6	"	
	11	7	5	"	"	5-6		30.19	73	72	69	75	"	cum nimb & circum	5	"	
	Mid.	6	0	SE×S	ENE	3-5		30.19	73	72	69	75	"	"	6	"	

Longitude by Chronometer from Afternoon Observations ⊙ 162° 29' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p.m. 7° 00' E

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday April 6th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Pleasant weather. Fresh breeze with occasional puffs from E by N. veering to E.N.E. Aneroid barometer 30.44.

W M Irwin Lieut
wmd

4 to 8 A.M. Clear and pleasant. Fresh breeze from E.N.E. Smooth sea. Aneroid 30.46.

Wainwright Kellogg
wk
Lieut

8 A.M to Meridian. Weather clear and pleasant. Fresh breeze from E by N. to E.N.E. Barometer falling slowly. Moderate sea, which ship rides easily. Took in royals. At 9.15 had full dress muster, and read articles for the government of the Navy. Aneroid barometer 30.40.

Hal Roberts, Lieut

Meridian to 4 P.M. Weather clear and pleasant. Fresh to moderate breeze from E.N.E. Moderate sea. Barometer falling. Took in and stowed flying jib at 12.00. Set royals and flying jib at 3.25. Aneroid at end of watch 30.34.

P. Kee Lieut

4 to 6 P.M. Pleasant weather. Fresh breeze from E.N.E. Moderate sea. Aneroid barometer 30.36.

W M Irwin
wmd
Lieut

6 to 8 P.M. Clear and pleasant. Moderate breeze from E.N.E. Smooth sea, Moonlight, Aneroid 30.38.

Wainwright Kellogg
wk
Lieut

8 P.M. to Midnight. Weather clear and pleasant. Breeze gentle to fresh in squalls from E.N.E. Moderate sea. Aneroid barometer 30.35

Hal Roberts, Lieut

Moon l, mid. Examined and found to be correct.
Dec 6° 53' 23" N.
Phase, 1st Qr.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Nagasaki. Japan to Ujai I. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway.	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	6	4	SSE 1/4 E	E x N.	5-6	1/4	30.15	74	72	69	75	bcq	Cirrus Cir cum	6	M	
2	6	8	"	"	5-6	1/4	30.12	73	72	69	75	"	"	6	"	
3	7	0	"	"	5-6	1/4	30.12	73	72	69	75	"	"	6	"	
4	7	2	"	"	5-6	1/4	30.12	73	72	69	75	"	"	4	"	
5	6	4	SSE 1/2 E.	"	5		30.12	73	72	69	75	bc	"	5	"	
6	6	5	SSE.	"	5-6		30.13	73	72	69	75	bcq	"	2	"	Took in royals and fly. jib
7	5	6	"	"	5-6		30.13	73	72	69	75	"	"	5	"	Set " " "
8	5	6	S.E.	NE x E.	3-5		30.14	73	72	70	76	bcqp.	"	3	"	
9	5	6	S x E.	E x S.	3-4		30.15	74	74	70	76	bc	cir & cum	6	S	
10	5	6	S x E 1/2 E.	East	3-4		30.15	75	75	70	76	"	"	7	"	
11	4	4	SSE.	"	3-4		30.15	75	75	70	76	"	"	7	"	
Noon.	4	8	SSE 3/4 E	E by N.	3-4		30.14	75	75	70	76	"	"	7	"	

N 22°21' E 163°17'

Distance run by Log since preceding Noon 151 knots 0 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 22° 01' 09" N

Longitude by D. R. at Noon 163° 21' 15" E

Latitude by Observations at Noon ⊙ 21° 45' 56" N

Longitude by Chronometer from Forenoon Observations ⊙ 163° 13' 15" E

Current during the time 0.7 knots ~~fms.~~ per hour, setting to the S. 26° W

1083. Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2600 "

Coal consumed during the preceding 24 hours tons. 400 lbs.

Coal remaining on hand at Noon 151 " 1640 "

P. M.																
1	5	4	S.SE 1/2 E	E x N.	4-5		30.14	75	74	70	76	bc	cir cum	6	S	
2	5	5	"	"	4-5		30.12	75	74	70	76	"	"	6	"	
3	5	5	SE x S	ENE.	5		30.10	76	74	70	76	"	cum	7	"	
4	6	0	SE 1/2 S.	"	5		30.08	76	74	70	76	bcp.	ci cum cum nimb	6	"	
5	6	0	SSE 3/4 E	"	5	1/4	30.08	76	74	71	77	bc	cum & ci cum	6	M	
6	6	4	SE x S	"	4-5	1/4	30.08	76	74	72	77	bcq	"	6	"	
7	6	2	SE 1/2 S.	NE	4-5		30.07	76	74	72	77	"	"	7	"	
8	6	8	SE 1/4 S.	ENE.	5-6		30.08	76	74	71	77	"	"	7	"	
9	7	4	SSE 1/2 E.	E x N.	6		30.10	76	74	71	77	bc	cir & cum	7	"	
10	7	6	S.S.E.	"	6		30.11	76	74	70	76	bcp	"	6	"	Took in royals.
11	7	6	S x E 1/2 E.	East	6		30.11	76	74	70	76	bc	"	7	"	
Mid.	7	0	"	"	6		30.11	76	74	69	76	"	"	8	"	

N 21°08' E 163°35'

Longitude by Chronometer from Afternoon Observations ⊙ 163° 09' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p.m. 8° E' "

under the command of Commander A. H. McCormick, U. S. Navy,

Monday. April 7th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Moderate breeze from E by N. Barometer falling. Steering "full and by" to S.E. Aneroid at end of watch 30.29

C.P. Rees Lieut

4 to 8 A.M. Cloudy with passing showers last hour. Moderate breeze from E by N to N.E by E. with frequent squalls. At 6.20 took in royals and flying jib to a passing squall, set them at 6.35. Aneroid bar. 30.31.

W.M. Simmons Lieut

8 A.M to Meridian. Clear bright weather. Gentle to moderate breeze from E by S. hauling to E by N. latter part of watch. Barometer steady. At 9.15 went to quarters after which exercised divisions as per routine. At 10.15 took in main royal to pass new robands. set it at 10.30. Ship off her course, full and by. Aneroid barometer 30.28.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Weather clear and pleasant. Moderate to fresh breeze from E by N. to E.N.E. A light passing shower of rain in last hour of watch. Aneroid barometer 30.22.

Hal Rohdes Lieut

4 to 6. P.M. Weather clear and pleasant. Moderate breeze from E.N.E. freshening latter part of watch. Moderate sea. Barometer steady. Mustered at quarters at 4.45. Aneroid at end of watch 30.25.

C.P. Rees Lieut

6 to 8. P.M. Pleasant weather, bright moonlight. Moderate breeze from E.N.E. Aneroid barometer 30.28.

W.M. Simmons Lieut

8 P.M to Midnight. Clear and pleasant. Fresh breeze from E by N. to East. Moderate sea. At 11.00 took in and furled royals. Aneroid 30.26.

Wainwright Kellogg Lieut

Moon l mid Examined and found to be correct.
Dec 2° 28' 07" N
Phase. 1st Qr.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan to Ujai I. Marshall Group.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	1	5	5	SSE½E	E×N.	4		30.08	75	75	70	76	bc	Cum & Cir.cum	6	S.	
	2	5	5	"	"	4		30.08	75	75	70	76	"	"	8	"	
	3	5	5	"	"	4		30.08	74	74	69	76	"	Cir	9	"	Set royals
	4	5	0	"	"	4		30.08	74	74	69	76	"	"	8	"	
	5	5	8	"	"	4	¼	30.08	74	74	69	76	"	"	8	"	
N 20°00'	6	6	5	S.SE¼E.	"	4	¼	30.08	75	75	71	76	"	"	8	"	
E 163°52	7	6	5	"	"	5	¼	30.10	75	75	71	76	"	"	6	"	
N 19°50'	8	6	2	"	"	5	¼	30.10	75	75	71	76	"	"	6	"	
E 163°57	9	6	6	SSE¾E.	"	5	¼	30.12	77	77	72	76	"	Cir Cum & Cum	7	"	
	10	7	0	SE¾S.	"	5	¼	30.14	78	77	72	76	"	"	6	"	Took in royals & fly jib
	11	6	8	SE×S.	ENE.	5	¼	30.12	78	77	72	76	"	"	5	"	
	Noon.	7	0	SE¾S.	"	5	¼	30.10	79	78	72	77	"	"	5	"	

Distance run by Log since preceding Noon 151 knots 3 tenths ~~fathoms.~~

Latitude by D. R. at Noon 19° 25' 32" N

Longitude by D. R. at Noon 164° 10' 15" E

Latitude by Observations at Noon ⊙ 19° 13' 30" N

Longitude by Chronometer from Forenoon Observations ⊙ 163° 54' 15" E

Current during the time 0.83 knots ~~fms.~~ per hour, setting to the S 49° W

1109 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M. 7° 45' E

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2250 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 151 " 1240 "

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.																
	1	7	4	SSE½E	ENE.	5-6		30.07	78	77	73	78	bcqp	Nimb Cir & Cum	4	M	
	2	6	6	S.S.E.	E×N.	5-7		30.04	76	75	73	78	"	"	2	"	
	3	7	0	S.E by S.	ENE.	5-7		30.04	76	75	72	78	"	"	1	"	
	4	7	6	SE½S.	"	5-7		30.04	76	74	73	78	"	"	4	"	
	5	7	5	SE×S.	"	5-6		30.04	76	74	71	78	"	Cum. Nimb Cir Cum	4	"	
	6	8	0	"	"	5-6		30.04	76	76	72	78	bcq	"	5	"	
N	7	7	0	S.S.E½E	E×N.	5-7	1	30.05	77	75	72	78	"	"	3	"	Furled top gallant sails & took single reef in topsails
18°19 E	8	6	8	SSE¼E	"	5-7	1	30.06	77	76	72	78	"	"	3	"	
164°13'	9	6	6	S.S.E½E.	"	5-7	1	30.07	77	76	72	78	"	"	6	"	
	10	6	0	S.S.E	"	5-7	1	30.07	77	76	72	78	bcqd	Cir Cum Nimb	4	"	
	11	5	6	"	"	5-7	1	30.07	77	76	72	78	bcq	"	4	"	
	Mid.	6	0	"	"	5-7	1	30.07	77	76	72	78	ocqd	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ 163° 56' 15" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az at 4 p.m. 8° 00' E

under the command of Commander A. H. McCormick, U. S. Navy,

Tuesday April 8th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A.M. Weather clear, and pleasant. Moderate breeze from E by N. Barometer steady. Sea smooth. Bright, moonlight and starlight. Aneroid barometer 30.23. Moon set at 4.00.

Karl Rohrer Lieut

4 to 8 A.M. Weather clear, and pleasant. Moderate breeze from E by N. Smooth sea, Barometer rising. Aneroid, at end of watch 30.28.

C. P. Rees Lieut

8 A.M. to Meridian. Clear bright, and pleasant. Fresh topgallant breeze from E by N. hauling to E.N.E. latter part of watch. Falling barometer. Sea smooth. Went to quarters at 9.15, after which drilled, as per routine. At 10.00 took in royals, and hauled down flying jib. Ship off her course, "full and by." Aneroid, at end of watch 30.22.

W. M. Irwin Lieut

Meridian to 4 P.M. Cloudy, and pleasant with passing rain showers. Wind fresh from E.S.E. and E by N. with occasional strong squalls, hauling to E.S.E. and going back again to E.N.E. Took in topgallantsails and jib at 2.05 and at 3. to passing squalls. Set them again with reef in jib. Aneroid barometer, at end of watch 30.20.

Wainwright Kellogg Lieut

4 to 6 P.M. Weather squally but not unpleasant. Breeze fresh in squalls from E.N.E. with passing showers first part of watch. Barometer steady. Clewed up topgallantsails to passing squall at 4.30; set them again at 4.50. Moderate sea with an occasional long roller from about E.S.E. Aneroid barometer 30.22

Karl Rohrer Lieut

6 to 8 P.M. Weather cloudy and squally. Strong breeze from E by N. Barometer steady. At 6.25 furled topgallantsails, and took single reef in topsails. Aneroid at end of watch 30.22

C. P. Rees Lieut

8 P.M. to Midnight. Cloudy and squally with light drizzling rain at intervals. Fresh breeze from E by N. Moderate sea. Aneroid barometer 30.23.

W. M. Irwin Lieut

Moon l. mid
Dec 1° 01' 21" S
Phase, 1st Qr.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Nagasaki. Japan to Ujai I. Marshall Group

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	6	0	S × E	East	5-7		30.04	76	74	72	78	bcqd	Cir cumu & cumulus	2	M	
2	6	6	S × E ½ E	〃	5-7		30.02	75	74	72	78	〃	〃	2		
3	6	0	SE.	NE × E	5-7		30.02	76	75	72	78	bcq	〃	1		
4	6	0	SE × S.	ENE	5-7		30.02	76	75	72	77	〃	〃	1		
5	6	0	〃	〃	5-6		30.04	76	76	72	78	〃	Cir cumu & cumu	8		
6	6	0	〃	〃	4-5		30.06	76	76	72	78	〃	〃	8		Shook reef out of topsails
n 7	7	0	SSE	E × N.	4-6		30.08	76	76	72	78	〃	〃	7		and set topgallant sails
17°08' E 8	8	0	〃	〃	5-6		30.08	76	76	72	78	〃	〃	7		
164°32' 9	7	6	SSE ½ E.	ENE	5-6	¼	30.08	77	77	72	78	〃	〃	6		
10	7	0	〃	〃	5-6	¼	30.08	77	78	73	78	〃	Cir cumu	6		
11	6	8	SSE ¾ E.	〃	5-6	¼	30.08	77	78	73	78	〃	〃	4		
Noon.	5	8	SSE ½ E.	〃	5-6	¼	30.05	78	78	73	78	〃	〃	5		

Distance run by Log since preceding Noon *160* knots *9* ~~fathoms.~~ *tenths*

Latitude by D. R. at Noon *16° 42' 08" N*

Longitude by D. R. at Noon *164° 41' 00" E*

Latitude by Observations at Noon ⊙ *16° 34' 31" N*

Longitude by Chronometer from Forenoon Observations ⊙ *164° 26' 30" E*

Current during the time *0.66* knots ~~fms.~~ per hour, setting to the *S 61° W*

1109 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at *8 a. m.* *8° 00' E*

Water expended during the preceding 24 hours *350* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1900* "

Coal consumed during the preceding 24 hours tons *400* lbs.

Coal remaining on hand at Noon *151* " *840* "

P. M.																
1	8	4	SSE ½ E	E × N.	5-6		30.04	79	78	74	78	bcq	Cir & Cumu	4	M	
2	7	8	〃	〃	5-6		30.02	79	79	74	78	〃	〃	0	〃	
3	8	0	SSE ¾ E.	〃	5-6		30.01	79	79	74	78	〃	〃	4	〃	
4	8	0	SE × S.	〃	5-6		29.99	79	79	74	78	〃	〃	4	〃	
5	8	0	〃	E N. E	5-6		29.98	79	78	74	78	〃	〃	5	〃	
6	7	4	SE	NE × E	5-6		29.98	79	78	74	78	〃	〃	6	〃	
n 7	7	5	〃	〃	5-6		30.01	79	78	74	78	bcqp.	Cir cumu Cumulus	4	〃	
15°39' E 8	7	5	〃	〃	5-6		30.01	79	78	74	78	〃	〃	6	〃	
164°36' n 15°33' 9	8	0	SE × S	〃	5-7		30.02	79	78	74	78	bcq	〃	4	L	
E 165°00' 10	7	8	〃	E N. E	5-7		30.02	79	77	75	78	〃	〃	6	〃	
11	7	4	〃	〃	5-7		30.00	79	77	75	78	〃	〃	7	〃	
Mid.	7	4	〃	〃	5-7		30.00	79	77	75	78	〃	〃	7		

1110 Longitude by Chronometer from Afternoon Observations ⊙ *164° 27' 00" E*

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by *Az ⊙* at *4 p. m.* *8° 00' E*

under the command of Commander A. H. McCormick, U. S. Navy;

Wednesday. April 9th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy greater part of watch. Fresh breeze with frequent very strong squalls of wind and rain from East to E N E. Moderate sea. Aneroid 30.20. at end of watch.

Wainwright Kellogg Lieut

4 to 8 A.M. Weather clear and pleasant. Breeze stiff in squalls from E N E to E by N. Shook reef out of topsails, and set topgallantsails. Moderate sea. Aneroid barometer 30.25.

Karl Rohrer Lieut

8 A.M to Meridian. Weather partly cloudy and pleasant. Moderate breeze from E N E. Barometer steady. Mustered at quarters at 9.30. and exercised 1st Division orally. Signal Class at Army Code, and Marine Guard at small arms. Aneroid at end of watch 30.20. Put over Patent log at 12. showing 69.

Lieut

Meridian to 4 P.M. Fair and pleasant. Fresh topgallant breeze from E by N. with occasional squalls. Moderate sea. Falling barometer. Instructed Apprentices in signals. Ship off her course, "full and by" Aneroid at end of watch 30.12. Patent-log at end of watch 91.8

W. M. Irwin Lieut

4 to 6. P.M. Clear and pleasant. Fresh breeze from N E by E. Moderate sea. At 6. took in topgallantsails and furled them. At 4.45 mustered at quarters. Aneroid 30.16.

Wainwright Kellogg
WK Lieut

6 to 8. P.M. Weather pleasant but somewhat squally. Stiff breeze from N E by E. Moderate sea running with an occasional long swell from E S E. Barometer steady. Aneroid at end of watch 30.19. Patent log at end of watch 22.5 miles.

Karl Rohrer Lieut

8 P.M to Midnight. Weather partly cloudy with occasional squalls but generally pleasant. Bright moonlight. Barometer steady. Changed course to E by S at 8.05. Aneroid at end of watch 30.18. Patent-log 54

Lieut

Moon Merid Examined and found to be correct.
Dec 4° 58' 04" S.
Phase, 1st Qr.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki, Japan. to Ujai I. Marshall Group.

	Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
1110.	1	7	4	S E × S	N E × E.	5-7		29.99	80	79	75	78	bcq	Cir Cum	6	M	Plain sail to topsails
n 15°00'	2	7	4	"	"	5-7		29.98	80	79	75	78	"	"	3	"	
E 165°21'	3	7	4	"	"	5-7		29.98	80	79	75	78	bcqs	Cir Cum nimb	2	"	
	4	7	4	"	E N E.	5-7		29.98	80	79	75	78	"	"	2	"	
	5	8	0	"	"	5-7		29.96	78	78	76	78	bcqp.	"	3	"	
	6	7	4	"	"	5-7		29.97	78	77	75	79	"	"	2	"	
n	7	7	8	"	"	5-7		29.98	78	78	75	79	"	"	3	"	
14°18 E	8	6	0	"	E × N.	5-6		30.00	78	78	76	79	"	"	4	"	
165°36'	9	6	2	S × E.	E.	5-6		30.00	78	78	76	79	bcq	Cir Cum & Cum	3	"	
	10	8	0	"	E × N	5-6		30.00	79	78	76	79	bcqp	Cir Cum	3	"	Set topgaltsails
	11	8	0	"	"	5-6		30.00	79	79	76	80	bcq	"	4	"	" royals & fly jib
	Noon.	7	0	S 3/4 E	"	5-6		29.99	80	79	77	80	"	"	5	"	Took in " " "

Distance run by Log since preceding Noon 171 knots 2 tenths ~~fathoms.~~

Latitude by D. R. at Noon 13° 49' 19" N

Longitude by D. R. at Noon 165° 38' 15" E

Latitude by Observations at Noon ⊙ 13° 48' 10" N

Longitude by Chronometer from Forenoon Observations ⊙ 165° 12' 45" E

Current during the time 1.0 knots fms. per hour, setting to the S 88° W

1139. Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1550 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 151 " 440 "

	Hour	Knots	Fathoms	Courses	Direction	Force	Leeway	Height	Ther.	Dry	Wet	Water	Weather	Clouds	Clear Sky	Sea	Record
	P. M.	3	4	S × E													
	1	3	2	S.	E N E	4-5		29.96	80	79	77	80	bcq	Cir Cum	7	M	
	2	6	6	"	"	5-6		29.96	80	80	77	80	"	"	8	"	
	3	6	6	"	"	5-6		29.95	80	80	77	80	bcqp.	Cum & Cir Cum	4	"	
	4	7	0	"	"	5-6		29.95	80	80	77	80	"	"	6	"	
	5	6	2	"	"	5		29.94	80	80	77	80	bc	"	5	"	
	6	6	0	"	"	4		29.94	80	80	78	80	"	Cir Cum & strat	3	"	
n	7	7	0	"	"	4		29.96	82	80	78	80	bcp.	"	1	"	
12°58' E	8	7	0	"	"	4-6		29.96	83	80	78	80	bcqp.	"	2	"	
165°02'	9	7	0	"	N E × E.	3-5		29.98	81	79	77	80	bcql	Cum nimb & Cir Cum	3	S.	
n 12°44	10	8	0	S ½ W.	E.	4-6		30.00	80	78	75	80	bcqs	"	1	"	
E 165°00	11	6	5	S.	E N E	3-5		30.00	79	77	76	80	bcqlp	"	4	"	
	Mid.	6	5	"	"	3-5		29.98	79	77	76	80	bcl	"	6	"	

Longitude by Chronometer from Afternoon Observations ⊙ 165° 10' 09" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p.m. 8° 15' E

under the command of Commander A. H. McCormick, U. S. Navy;

Thursday April 10th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Generally cloudy with occasional rain. Fresh breeze from NE by E with frequent squalls. Moderate sea. Aneroid barometer 30.12. Patent log 83.6.

W.H. Simmons wms Lieut

4 to 8 A.M. Cloudy, Pleasant. Fresh breeze from ENE. moderating to moderate breeze last hour. Occasional moderate squalls of wind and rain. Moderate sea. Aneroid 30.18. Patent log 112.2.

Wainwright Kellogg wk Lieut

8 A.M. to Meridian. Weather generally pleasant. Breeze stiff in squalls from E to E by N. Barometer steady. Moderate sea. Passing showers of rain in first half of watch. At 9.15 mustered and inspected at quarters, and afterwards exercised at fire quarters. At 8.45 changed course to S by E. by order of Captain. Aneroid barometer 30.14. At noon patent log indicated 43.2

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather clear and pleasant with occasional light squalls. Moderate breeze from ENE. Barometer falling. At 12.30 changed course to South, patent log registering 47 miles. Aneroid, at end of watch 30.07. Patent log 74.9.

Lieut

4 to 6. P.M. Pleasant weather. Moderate breeze from ENE. Moderate sea. Mustered at quarters at 4.45. Aneroid barometer 30.09.

W.H. Simmons Lieut

6 to 8. P.M. Cloudy. Frequent light showers of rain with light squalls. Moderate breeze from ENE. Smooth sea. Aneroid 30.12. Patent log 104.2

Wainwright Kellogg wk Lieut

8 P.M. to Midnight. Weather squally and wet in early part of watch clearing up somewhat in latter part. Lightning to Sd, Ed and Nd. ~~tonight~~. Noticed an eclipse of the moon. At 8.30 braced up to a shift of wind. Aneroid barometer 30.14. Pat. log indicated 33 knots at midnight

Karl Rohrer, KR Lieut

Moon [illegible]
Dec 8°53'48" S.
Phase, 1st Qr

Examined and found to be correct.

W. S. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Nagasaki Japan to Ujai I. Marshall Group

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	6	7	S.	E.N.E.	5-6		29.98	80	78	77	80	bcq	Ci. Cum	5	M	
2	6	8	"	E×N.	5-6		29.96	80	77	76	80	"	"	4	"	
3	6	4	"	E.	5-6		29.94	80	77	76	80	"	"	6	"	
4	6	8	"	"	5-6		29.94	80	77	76	80	bcqp	"	3	"	
5	3 2	0 8	S×E	"	4-5		29.95	80	77	76	80	"	"	2	S.	
6	5	6	S	E×S.	4-5		29.95	80	78	76	80	bc	"	4	"	Took in mainsail
7	4	5	S½E.	"	3		29.95	80	78	76	80	"	"	5	"	Set main trysail and
8	4	8	S×E.	East	3		29.97	81	79	77	81	"	"	5	"	spanker. Reef out of jib
9	6	0	"	"	4		30.02	80	80	77	81	"	"	7	"	Took in all sq. sail
10	6	0	S×E½E.	"	4		30.03	80	80	77	81	"	"	6	"	Set. fore topmast
11	5	0	SE½S.	"	4		30.03	80	80	77	81	"	"	7	"	staysail and main
Noon.	7	0	"	"	4		30.03	80	80	77	81	"	"	6	"	trysail.

n 11°43' E 164°53'

Distance run by Log since preceding Noon 152 knots 4 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 11° 21' 46" N

Longitude by D. R. at Noon 165° 00' 24" E.

Latitude by Observations at Noon ☉ 11° 15' 11" N

Longitude by Chronometer from Forenoon Observations ☉ 164° 40' 50" E

Current during the time 0.8 knots ~~fms.~~ per hour, setting to the S 69° W

1138 Variation of the Compass by Amplitude ☉ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ☉ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1200 "

Coal consumed during the preceding 24 hours 3 tons 2200 lbs.

Coal remaining on hand at Noon 147 " 480 "

P. M.															
1	7	5	SE½S.	E by N.	4		30.00	81	81	77	81	bc	Ci. cu-cum & cum	6	S
2	7	5	"	"	4		29.97	81	81	77	81	"	"	5	"
3	7	0	"	"	4		29.94	81	81	77	81	"	"	6	"
4	7	0	"	"	4		29.91	80	80	76	81	"	"	6	"
5	7	0	"	"	4		29.92	80	80	77	82	"	"	6	"
6	7	3	"	"	4		29.94	81	80	77	82	"	"	3	"
7	7	0	"	"	4-5		29.96	81	79	77	82	bcqp	"	4	"
8	7	0	"	"	4-5		29.96	81	79	77	82	"	"	7	"
9	7	4	"	"	4		29.98	81	80	78	82	bc	"	6	"
10	7	0	"	"	4		29.98	81	80	78	82	"	"	6	"
11	7	0	"	"	4		29.98	81	80	78	82	"	"	5	"
Mid.	7	0	"	"	4		29.98	81	80	78	82	"	"	5	"

n 11°04' E 165°00'

n 10°24' E 165°09'

1139

Longitude by Chronometer from Afternoon Observations ☉ 164° 38' 10" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ☉ at 4 p.m. 9° 00' E

under the command of Commander A. H. McCormick, U. S. Navy;

Friday, April 11th, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather partly cloudy and pleasant Moderate breeze from E^d. Barometer falling. The moon's eclipse ended at 12.49. Aneroid at end of watch 30.06.

Lieut

4 to 8 A.M. Generally pleasant, light showers first hour. Moderate breeze from E by S to East. At 4.20 changed course to S.S.E. patent log reading 65.1 At 5.30 furled mainsail and put cover on, hoisted smoke stack, and at 6.10 started fires in six boilers. At 7.45 set main trysail and shook reef out of jib. At 7.45 ship came up to new course S S E ½ E. Patent log at end of watch 82.7. Aneroid barometer 30.14.

W. M. Irwin Lieut

8 A.M to Meridian. Clear, and hot. Moderate breeze from East. Smooth sea. At 10. connected screw, and at 10.10. went ahead with engines. Called all hands and shortened, and furled all square sails. At 10.20 changed course to S E ½ S. Average revolutions 40. Steam 52 lbs. Aneroid 30.09. Patent log at end of watch 105 knots.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Clear and pleasant weather. Moderate breeze from E by N. Barometer falling. Sea smooth. Sent down the preventer braces. Under steam, making 45 revolutions, under a pressure of 46 lbs. Patent log at end of watch 45 knots. Aneroid barometer 30.02.

Karl Rohrer Lieut

4 to 6. P.M. Weather partly cloudy and pleasant. Gentle breeze from E by N. Barometer rising. Mustered at quarters, at 4.45. Got up and bent chains. Steering S E ½ S. Aneroid at end of watch 30.08. Patent log 49.4 Steam pressure 44. Revolutions 47.

Lieut

6 to 8. P.M. Cloudy with passing rain squalls. Moderate breeze from E by N. Aneroid barometer 30.10. Steam 45 lbs. Revolutions 43.8. Patent log at end of watch 63.8.

W. M. Irwin Lieut

8 P.M to Midnight. Cloudy. Pleasant. Moderate breeze from E by N. Moderate swell from direction of wind. Obscured moonlight. Steam 47 lbs. Revs 44. Aneroid 30.07. Patent log 92.6. Wainwright Kellogg
WK Lieut

Moon mid Examined and found to be correct.
Dec. 11°52' 40" S.
Phase, Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Nagasaki Japan to Ujai I. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
N 10°00' 1	7	0	SE½S.	East	4		29.98	81	80	78	82	bc	Cirr & Cir Cum	5	S	Fore and aft sail
E 165°24' 2	7	0	"	"	4		29.97	81	80	78	82	"	Cir cum & Cum Nimb	3	"	
3	7	0	"	"	4		29.96	81	80	78	82	bcp	"	4	"	
4	7	0	"	"	4		29.94	80	80	78	82	bc	Cirr & Cir Cum	6	"	
5	7	0	"	"	4		29.94	80	79	77	82	"	"	6	"	
6	7	2	"	"	4		29.94	80	79	77	82	"	"	6	"	
N 7	3 3	8 8	SE×E.	"	4-5		29.94	80	80	77	82	bcqp	"	3	"	
9°12' E 8	7	5	"	ENE.	4-5		29.96	80	80	78	82	bcq	"	4	"	
165°48' 9	5 1	4 6	East E¼N.	"	3		30.00	83	82	78	82	bc	"	2	"	Took in all fore and aft sail
10	6	8	"	"	2		30.02	83	82	78	82	"	"	3	"	
11	5	4	"	"	2		30.01	83	83	79	82	"	"	2	"	
Noon.	3	0	"	"	2		29.99	84	83	79	83	"	"	2	"	

Distance run by Log since preceding Noon *164* knots *9* ~~fathoms~~ *tenths*.

Latitude by D. R. at Noon *9° 12' 00" N*

Longitude by D. R. at Noon *166° 15' 00" E*

Latitude by Observations at Noon ⊙ *9° 12' 00" N*

Longitude by Chronometer from Forenoon Observations ⊙ *166° 07' 00" E*

Current during the time *0.3* knots Ths. per hour, setting to the *W.*

1168. Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *350* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *850* "

Coal consumed during the preceding 24 hours *13* tons *2120* lbs.

Coal remaining on hand at Noon *133* " *600* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.	1	4	S¾E													
1	5	2	S¾W.	SSE	2		29.96	83	82	79	83	bc	Cir cum & Cum Nimb	2	S	
2	Various courses			"	3		29.95	81	79	76	83	bcp	"	1	"	
3	do.			SSW.	3		29.94	81	78	76	83	"	"	2	"	
4	1	0	SSW½W.	SSE	2		29.94	81	78	76	83	"	"	1	"	
5	5 1	0 0	S×W. W×S	W×N.	2		29.94	81	78	76	83	oc	Cir strat & Cum Nimb	0	"	
6	6	5	"	NW.	2		29.94	81	78	76	83	"	"	0	"	
7	2	5	WNW.	NNE.	2		29.95	81	78	76	83	bc	"	4	"	
8	1	3	SE.	"	2		29.97	80	78	76	83	"	"	2	"	
9	3	2	"	"	1		29.97	80	78	76	83	"	"	3	"	
10		5	"	"	1		29.98	81	78	76	83	"	Cir Cum & Cum	2	"	
11	Engines stopped		"	"	1		29.98	81	78	76	83	"	"	2	"	
Mid.	"		"	"	1		29.98	81	78	76	83	"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Saturday. April 12. , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather pleasant. Moderate breeze from East. Smooth sea. Falling barometer. Under steam, making 40 revolutions, under 42 lbs pressure. Aneroid barometer 30.14.

Karl Rohrer, Lieut

4 to 8. A.M. Weather cloudy and pleasant. Gentle breeze from Ed. Barometer rising. Changed course at 6.35 to S.E by E. Patent log 39.4. Keeping a bright lookout during watch for land or indications of land. Aneroid at end of watch 30.10 Steam 47. Revs. 48. Pat. log 49.6

C. P. Rees Lieut

8 A.M to Meridian. Cloudy and warm. Light breeze from E N E. Smooth sea. At 8.02 changed course to East, patent log read 49.6 knots. Took in fore and aft sail. At 8.45 changed course to E ¾ N. patent log read 54.4. At 9.15 mustered at quarters At 10.24 slowed down to await meridian observations. Aneroid barometer at close of watch 30.06. Steam 40 lbs. Revolutions 39. Patent log at end of watch 71.

W. M. Irwin Lieut

Meridian to 4 P.M. Cloudy. Raining last three hours of watch with occasional clear moments. Smooth sea. Light variable breeze from S S E to S S W. At 12.05 sighted land bearing S ¾ W. From 1.45 to 3.40 steering various courses and at varying speed. Approaching an island supposed to be Lae Atoll. At 3.40 took departure from Lae Atoll, Rebong Island bearing N Log Island E N E. Course S. S. W. ½ W. Speed 7 knots. At end of watch north end of Log Island bore N. N. E. distant about three miles. Aneroid 30.04.

Wainwright Kellogg Lieut

4 to 6. P.M. Weather generally pleasant though cloudy. Under steam 40 lbs and 42 revolutions. At 4.25 changed course to S × W. at 4.35 to S S W ½ W. and at 4.50 to W by S. by order of Captain. Lost sight of Lae Island at 5.30 bearing p.c. N E ¾ E. At 5.30 sighted land from aloft bearing about W N. W ¼ W. Light breeze from W by N to N. W. Barometer steady. Aneroid barometer 30.15. At 5.58 changed course to W N W by order of Captain

Karl Rohrer, Lieut

6 to 8. P.M. Weather cloudy and pleasant. Light variable airs. Barometer steady Stopped engines at 6.20, and banked fires, Started ahead, at 7.30, and headed S E. At 7.03 fired one gun (60 pdr), and two signal rockets at intervals of two minutes thereafter. Steaming at the rate of 2.5 knots at end of watch. Aneroid 30.08. Expended one charge (8 lbs) for 60 pdr, two rockets and two primers.

C. P. Rees Lieut

8. P.M to Midnight. Pleasant weather, bright moonlight. Gentle breeze from N. N. E. At 9.12 stopped the engines to wait for day light, keeping ship headed S. E. Steam ready to move the ship at short notice. Aneroid barometer 30.08.

W. M. Irwin Lieut

Moon l mid Examined and found to be correct.
Dec 14° 36′ 32″ S.
Phase, Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"* , *3* Rate, *6* Guns,

Making passage from Nagasaki Japan to Ujae I. Marshall Group.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	1	0	5	South	N. E	3		29.97	80	78	76	83	bc	Cir Cum & Nimb	4	S	
	2	0	5	"	"	2		29.96	80	77	77	83	"	"	4	"	
	3	0	5	"	"	2		29.95	80	78	77	83	"	"	4	"	
	4	0	5	"	"	2		29.93	80	79	77	83	ocp	"	0	"	
	5	1	0	"	East	3-5		29.93	79	78	77	83	ocqd	Cum & Nimb	0	"	
	6	1 1	0 0	S. W N N W.	N E	3-5		29.95	79	78	77	83	"	"	0	"	
N	7	3	0	"	N N E.	3		29.97	79	77	76	83	ocr	"	0	"	Set fore and aft sail
9°00' E	8	6	5	"	N E.	3-5		29.99	78	77	75	83	ocqd	Cir Cum Cum. Nimb	0	"	Took in do
165°37'	9				"	3		29.99	79	77	76	84	bcd	"	1	"	
	10	Lying to, off			East	3		30.00	80	78	77	84	bc	"	3	"	
	11	Ujae Island			"	3-4		29.98	80	80	78	84	bcq	"	3	"	
	Noon.				"	4-5		29.98	80	80	78	84	"	"	3	"	

Distance run by Log since preceding Noon *43* knots *1* ~~fathoms.~~ *tenths*

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ☉ *9° 00' 00" N*

Longitude by Chronometer from Forenoon Observations ☉ *165° 37' 00" E*

Current during the time knots fms. per hour, setting to the

1168 Variation of the Compass by Amplitude ☉ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ☉ observed at ° ' "

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *560* "

Coal consumed during the preceding 24 hours *10* tons *0000* lbs.

Coal remaining on hand at Noon *123* " *600* "

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.	Laying off															
	1	Ujae Island			East	3		30.00	83	81	78	84	bc	Cir Cum	3	S	Steam, jib. f topt stay'l
	2	1	6	S E by E ½ E	E x N.	2		29.99	83	81	78	84	"	"	3	"	and main trysail
	3	4	5	"	"	2		29.96	83	81	78	84	"	"	2	"	
	4	4	5	"	"	2		29.94	83	81	78	84	"	"	1	"	
	5	4	6	"	"	3		29.95	81	81	78	84	"	Cir Cum & Nimb	4	"	
	6	4	0	"	E S E.	3		29.96	81	81	78	84	bcr	"	1	"	
N	7	3	0	"	S E x E.	2-6		29.98	80	77	76	83	ocqd	Cum & Nimb	0	"	
8°48' E	8	3	5	"	E.	3-5		30.00	79	77	76	83	"	"	0	"	
166.01	9	3	3	S E x E.	S E x E	3-5		30.00	79	77	76	83	"	"	0	"	
	10	2 1	6 0	S E ½ S.	"	5-6		30.00	79	77	74	83	"	"	0	"	
	11	4	2	"	"	4-6		30.00	79	77	74	83	bcqd	"	1	"	Set jib. f topt stay'l main
	Mid.	5	0	"	E x S	5-6		29.99	79	77	74	83	bcq	"	2	"	trysail and spanker

Longitude by Chronometer from Afternoon Observations ☉ *165° 38' 00" E*

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by *Az ☉* at *4. p. m.* *9° 00' E*

under the command of Commander A. H. McCormick, U. S. Navy;

Sunday April 13th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy greater part of watch, drizzling rain last half hour. Obscured moonlight. Light breeze from E.N.E. Smooth sea. Heading S.E. without sail ~~or~~ not steaming. Lightly banked fires under six boilers. Aneroid 30.04
Wainwright Kellogg Lieut

4 to 8 A.M. Weather overcast, squally and rainy. Breeze fresh in squalls from East to N.N.E. Barometer rising. Under steam, pressure 31 lbs, and 32.5 revolutions. At 4.45 started ahead under steam, and got the patent log over, it showing 9.75 knots, and by order of the Captain put the ship on the course N.N.W. At 7.55 land was reported from aloft, and by order of Captain put the ship on the course. W½N. bringing the land to bear ahead. At the time of changing course patent log indicated 20.1 knots. Aneroid barometer 30.13.
Karl Rohrer, Lieut

8 A.M. to Meridian. Weather cloudy and pleasant. Gentle breeze from Nd and Ed, Barometer steady. Fired two guns at 8.50 to attract the attention of the shipwrecked people on Ujai. Steamed down to the So of the island and laid off and on under steam at a distance of from one to three miles from the land. At 9.35 stopped steaming to receive a whale boat and canoe containing the mate and a portion of the crew of the "Ranier". Sent them back to the island, accompanied by the 2d Cutter to bring off the party and their effects. Learned that half the crew under the command of Captain S. H. Morrison had sailed for Jaluit a month since in a small schooner constructed by themselves. Awaiting return of boats at end of watch. Aneroid barometer 30.04
C. P. Rees Lieut

Meridian to 4 P.M. Cloudy and warm. Gentle breeze from E. to E. by N. Smooth sea. The 2d Cutter and Ranier's whale boat returned, bringing all the shipwrecked people on the island with their effects. The party consists of O. J. Humphries. (1st Mate) Harry Percy. (3d Mate) Wm Horney (Sea) John Frisk (Sea) Andw Jorgensen. (Sea) Joseph Ponson. (Sea) Wm Smith. (Sea) J. Erickson. (Sea) and Edwd Nichols. (Cook.) with Mrs. Humphries, wife of the 1st Mate. The natives were suitably rewarded for their kindness and hospitality; and at 1.30 started ahead. shaping course S.E by E½E. for Jaluit island to look for the remainder of the crew. At 1.40 set jib. fore topmast staysail and main trysail. Sent down topgallant yards, and braced yards sharp up by the starboard braces. Put patent log over at 1.40 recording 33.5 knots. at end of watch 44 knots. Steam 40 lbs. Revolutions 36. Aneroid 30.04.
W. M. Irwin Lieut

4 to 6 P.M. Cloudy. Raining last half hour. Moderate breeze from E. which hauled to E.S.E. last hour of watch. Smooth sea. Steaming under four boilers. Revs 36. Steam 40 lbs. At 6. commenced distilling. At 4.05 got last bearing of Ujai Island bearing N.W ½ W. Aneroid 30.06.
Wainwright Kellogg Lieut

6 to 8. P.M. Weather overcast, squally and rainy. Breeze gentle to fresh in squalls from East to S.E by E. Barometer rising. Smooth sea. Aneroid barometer 30.10. Steam 32. Revolutions 33 Patent log 57.8 knots. At 8. changed course to S.E by E by order of Captain
Karl Rohrer Lieut

8. P.M to Midnight. Weather cloudy, squally and rainy. Wind from So and Ed, Barometer steady. Set jib, fore topmast staysail, main trysail, and spanker at 11.30. At 9.45 changed course to S.E. by S. patent log 62.5. Aneroid at end of watch 30.09. Patent log 70.5 Steam 32 lbs. Revolutions 34
C. P. Rees Lieut

Moon L mid
Dec 16° 42' 22" S.
Phase. Full moon.

Examined and found to be correct.

W. S. T. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Ujai I to Jaluit I. Marshall Group

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	6	2	SE × S	E × S	5-6		29.96	81	78	77	83	ocgq	Cum Nimb	0	S	All fore and aft sail
2	6	2	"	"	5-6		29.94	81	80	78	83	bcgd	"	2	"	
3	5	0	"	ESE	5-6		29.92	81	80	78	83	"	"	1	"	
4	5	0	"	SE	5-6		29.90	81	80	78	83	ocgq	"	0	"	Took in jib and spanker
5	4	2	"	"	4-5		29.95	81	80	78	83	bcgp	"	1	"	Took in f. topt stayt & M. trysail
6	4	2	"	"	4-5		29.97	81	80	78	83	"	Cir Cum & Nimb	1	"	
7	4	2	"	ESE	4-5		30.00	81	81	78	83	"	"	3	"	
8	4	4	"	"	4-5		30.02	81	81	78	83	"	"	2	"	
9	1 2	5 5	E S E	"	3		30.03	82	82	79	83	bc	Cir & Cum	4	"	
10	4	0	"	"	3		30.04	82	83	79	83	"	"	5	"	
11	4	5	"	"	3		30.04	82	82	79	83	"	"	4	"	
Noon.	3	0	"	E × S	4		30.02	82	82	78	83	"	Cir. Cum & Nimb	3	"	

N 7°54 E 166°16'

Distance run by Log since preceding Noon 94 knots 7 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 7° 47' 56" N

Longitude by D. R. at Noon 166° 37' 36" E

Latitude by Observations at Noon ⊙ 7° 47' 11" N

Longitude by Chronometer from Forenoon Observations ⊙ 166° 30' 36" E

Current during the time 0.3 knots fms. per hour, setting to the S 81° W

1168.

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 a.m. 8° 50' E

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 2850 "

Water remaining on hand fit for use at Noon 2600 "

Coal consumed during the preceding 24 hours 14 tons 600 lbs.

Coal remaining on hand at Noon 108 " 1240 "

P. M.																
1	4	6	ESE	ESE	4		29.98	83	82	78	84	bc	Cum & Cir Cum	3	S	
2	5	6			4		29.98	83	82	78	84	"	"	4	"	
3	6	0			4		29.96	83	82	78	84	"	"	4	"	
4	6	0			4		29.96	83	82	78	84	"	"	5	"	
5	6	4			3		29.95	83	82	78	84	"	"	4	"	
6	6	2			2		29.97	84	82	78	84	"	Cir Str	4	"	
7	7	0			2		29.98	84	82	78	84	bcp	"	3	"	
8	7	4			2		30.00	82	82	78	84	ocgq	Cum Cir Cum & Nimb	0	"	
9	7	0			2		30.02	83	81	77	84	bcp	Cum Nimb Cir Cum & Cir	5	"	
10	7	0			2		30.02	83	82	78	84	bc	Cir. Cir Cum & Cum	6	"	
11	7	0			2-4		30.02	83	82	78	84	bcq	Cir Cum Cum Nimb	3	"	
Mid.	7	0			3		30.00	83	81	75	84	bcp	"	5	"	

N 7°20' E 167°16'

Longitude by Chronometer from Afternoon Observations ⊙ 166° 32' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p.m. 9° 00' E.

under the command of Commander A. H. McCormick, U. S. Navy,

Monday, April 14th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Squally and rainy, clearing occasionally. Moderate breeze from E by S. to E.S.E. At 2.50 took in fore and aft sail. Steam 48 lbs. Revolutions 38. Aneroid barometer 30.04. Patent log at the close 88.2.

W. M. Irwin
WMI Lieut

4 to 8 A.M. Raining during entire watch. Cloudy. Moderate breeze from E.S.E. Smooth sea. Steaming under four boilers. Distilling. Steam 48. Revs 36. Aneroid 30.14.

Wainwright Kellogg
WK Lieut

8 A.M. to Meridian Weather clear and pleasant in latter part of watch. Breeze gentle to moderate from E by S to E.S.E. At 8.20 changed course to E.S.E by order of Captain. Under steam, pressure 34 lbs and making 34 revolutions. Let the distilling fires die out, stopped distilling and started fires in two more furnaces. At 9.15 mustered and inspected crew at quarters and had divisional drill. Aneroid barometer 30.09 Patent log indicated 31 knots at 12. Threw overboard seventy pounds of Oatmeal condemned by survey.

Karl Rohrer Lieut

Meridian to 4 P.M. Weather clear and pleasant. Gentle breeze from E.S.E. Barometer steady. Unbent spanker for repairs and bent new one. Aneroid at end of watch 30.04. Patent log 45.7. Steam 45. Revolutions 42.

Lieut

4 to 6. P.M. Pleasant weather. Gentle breeze from E.S.E. Smooth sea. Mustered at quarters at 4.45. Steam 47 lbs. Revolutions 41.5. Patent log 59.1 Aneroid barometer 30.07.

W. M. Irwin
WMI Lieut

6 to 8. P.M. Cloudy. Light drizzling rain last hour of watch. Light breeze from E.S.E. Smooth sea. Steam 48. Revs 45. Aneroid 30.11. Patent log 73.5.

Wainwright Kellogg Lieut

8 P.M. to Midnight. Weather pleasant though somewhat squally and wet. Breeze light to moderate from E.S.E. Barometer falling. Under steam pressure 48 lbs and 46 revolutions. Aneroid barometer 30.10.

Karl Rohrer, Lieut

Moon @ mid Examined and found to be correct.
Dec 18° 05' S.
Phase, Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Ujai I. to Jaluit I. Marshall Group

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	6	7	ESE	ESE	3		30.00	83	82	78	84	bc	cir cum	3	S	
2	6	6	〃	〃	3		29.98	83	82	78	84	〃	〃	4	〃	
3	6	4	〃	〃	3		29.96	83	82	78	84	〃	〃	6	〃	
4	6	4	〃	〃	3		29.96	83	82	78	84	〃	〃	7	〃	
5	6	4	〃	〃	2		29.97	84	83	79	84	〃	cir cum stra	5	〃	
6	6	4	〃	〃	2		29.99	84	83	79	84	〃	〃	2	〃	
N 7	6	4	〃	〃	2		30.02	84	83	79	84	bcp	〃	3	〃	
6°39' E 8	6	4	〃	〃	2		30.05	85	84	80	84	〃	cir cum	4	〃	
168°27' 9	6	8	〃	〃	2		30.08	84	83	79	84	bc	〃	6	〃	
10	7	0	〃	〃	2		30.08	84	84	79	84	〃	〃	7	〃	
11	7	0	〃	E by S	2		30.06	85	84	79	84	〃	〃	7	〃	
Noon.	7	4	〃	E.	2		30.04	85	84	79	84	〃	〃	7	〃	

Distance run by Log since preceding Noon 157 knots 1 ~~tenths~~

Latitude by D. R. at Noon 6° 24' 36" N

Longitude by D. R. at Noon 168° 51' 15" E

Latitude by Observations at Noon ⊙ —° —' •"

Longitude by Chronometer from Forenoon Observations ⊙ 168° 58' 00" E.

Current during the time knots fms. per hour, setting to the

1168. Variation of the Compass by Amplitude ⊙ observed at Sunrise ° '

Variation of the Compass by Azimuth ⊙ observed at ° '

Water expended during the preceding 24 hours 375 gals.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2225 "

Coal consumed during the preceding 24 hours 17 tons 490 lbs.

Coal remaining on hand at Noon 91 " 750 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	7	5	ESE	East	3		30.03	85	84	78	84	bc	cir cum strat	7	S	
2	7	5	〃	〃	4		30.01	85	84	78	84	〃	〃	7	〃	
3	2 5	5 5	ESE ¼ E.	〃	4		30.00	85	84	78	84	〃	cir cum cir strat	6	〃	
4	3 4	8 2	SE × E ½ E	ESE	4		30.00	85	84	78	84	〃	〃	6	〃	
5	7	8	〃	〃	4		30.00	85	83	78	84	〃	〃	6	〃	
6	6 2	0 0	SSE	〃	4		30.00	85	83	78	84	〃	〃	6	〃	
7	2 1	0 0	East	〃	3		30.02	83	83	78	84	bcl	〃	7	〃	
8	2	8	〃	〃	3		30.02	83	83	78	84	〃	〃	8	〃	
9	1	5	〃	NE	1		30.05	83	82	78	84	〃	cir cum nimbs	5	〃	
10	2	0	〃	〃	1		30.05	83	82	78	84	bc	〃	5	〃	
11	2	5	〃	East	2		30.06	82	81	77	84	〃	cir cum	7	〃	
Mid.	2	0	〃	〃	2		30.06	82	81	77	84	〃	〃	8	〃	

Longitude by Chronometer from Afternoon Observations ⊙ 168° 56' 08" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p.m 9° 00' E"

under the command of Commander A. H. McCormick, U. S. Navy,

Tuesday, April 15th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4. A.M. Weather clear and pleasant. Bright moonlight. Gentle breeze from E S E. Barometer falling. Aneroid at end of watch 30.06. Steam 48 lbs. Revolutions 44. Patent log 29.2

C. P. Rees Lieut

4 to 8. A.M. Cloudy. Passing showers last two hours. Gentle breeze from E.S.E. Smooth sea. Steam 47 lbs. Revolutions 44.7. Aneroid bar. 30.08. Patent log 55.6

W. M. Irwin Lieut

8 A.M to Meridian. Clear and warm with the exception of a heavy shower of rain at 9. Light breeze from East. Smooth sea. At 9.15 mustered at quarters. Steaming under six boilers. Revs. 46. Steam 46. Aneroid 30.08. Patent log 81.8 miles.

Wainwright Kellogg
WK Lieut

Meridian to 4 P.M. Clear and pleasant weather. Gentle to moderate breeze from East. Barometer falling. Under steam pressure 52 lbs. and making 42.5 revolutions. At 12.35 land was reported from aloft from a half point on port bow to a half point on starboard bow. By order of Captain changed course to E. S. E 3/4 E. at 2.16, and to S E by E 1/2 E at 3.25. At end of watch land in sight from three points on starboard bow to three points on starboard quarter. By order of Captain threw overboard twenty gallons of molasses, which was condemned by survey as unfit for use and deleterious to health of crew. At 4. Patent log indicated 11.4. Aneroid barometer 30.05

Karl Rohrer, Lieut

4 to 6. P.M. Weather clear and pleasant. Gentle breeze from E S E. Barometer steady. Running along the land to S&E° on east side of Jaluit Island. Mustered at quarters at 4.45. At 5.45 headed S S E. patent log 25.6 At end of watch the South East end of Jaluit Island bore South. Aneroid at end of watch 30.08. Patent log 27. Steam 50. Revs 49.

C. P. Rees Lieut

6 to 8. P.M. Pleasant weather. Gentle breeze from E S E. At 6.15 changed course to East, hauled in patent log, reading 29 knots. Slowed down to minimum speed to await daylight. Aneroid bar. at the close. 30.11.

W. M. Irwin Lieut

8 P.M to Midnight. Clear and pleasant. Light breeze from East. Smooth sea. Moon arose at 9.20: moonlight remainder of watch. Steaming very slowly. Aneroid 30.12.

Wainwright Kellogg
WK Lieut

Moon l mid
Dec 18° 40' 16" S.
Phase Full moon.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Ujai I to Jaluit I. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	Force.	Leeway	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	2	0	E	E.	2		30.04	82	81	78	84	bc	Cum & cir cum	6	S	
2	2	0	"	"	2		30.02	82	81	78	84	"	"	5	"	
3	0	5	NE	"	2		30.00	82	81	78	84	"	"	7	"	
4	0	5	"	"	2		29.98	82	81	78	84	"	"	7	"	
5				NE.	2		30.01	82	81	78	84	"	"	7	"	
6	2 2	0 0	WSW. SW¼W	S.	2		30.02	82	81	78	84	bcp.	"	6	"	
7	Standing in			Calm	0		30.04	82	81	78	84	"	"	6	"	
8	for Jaluit I.			"	0		30.04	82	81	78	84	bc	"	7	"	
9	Anchored		ENE	"	0		30.06	84	82	79	84	"	"	6	"	
10	"		"	"	0		30.08	85	84	80		"	"	6	"	
11	"		East	NE.	1		30.07	86	84	79		"	"	3	"	
Noon.	"		"	"	1		30.07	86	84	79		"	"	3	"	

n 8°55'
169°3

Distance run by Log since preceding Noon *69* knots *6* *tenths* ~~fathoms~~.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *450* gallons.

Water *distilled* during the preceding 24 hours *450* "

Water remaining on hand fit for use at Noon *2225* "

Coal consumed during the preceding 24 hours *10* tons *110* lbs.

Coal remaining on hand at Noon *81* " *640* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of the sail.
P. M.																
Anchored			EbyS.	NE	1		30.04	85	85	80		bc	cir cum	5	S	
2	"		"	"	1		30.02	85	84	79		"	"	4	"	
3	"		NE.	"	1		30.01	85	84	79		"	"	4	"	
4	"		"	"	1		30.01	85	84	79		"	"	5	"	
5	"		ENE.	"	1		30.02	85	84	79		"	Cir cum Cum strat	3	"	
6	"		"	"	1		30.02	85	84	79		"	"	5	"	
7	"		"	"	2		30.03	84	83	79		"	Cum & cir cum	5	"	
8	"		"	"	2		30.04	84	83	78		"	"	4	"	
9	"		East	"	2		30.04	85	83	80		"	"	5	"	
10	"		"	"	2		30.05	85	83	80		"	"	5	"	
11	"		"	"	2		30.06	85	83	80		"	"	4	"	
Mid.	"		"	"	2		30.06	84	83	79		"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ *169° 30' 45"*

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by *Az ⊙* at *4 p.m.* *8° 50' E*

under the command of Commander A. H. McCormick, U. S. Navy,

Wednesday, April 16th, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant, Light breeze from East, Stopped engines at 2.00. Steam 35. Revs. 13. Aneroid barometer 30.09.

Lieut

4 to 8 A.M. Weather partly cloudy and sultry. Barometer rising. Light variable airs and calms. Started ahead at 6.15 and headed to Sd and Wd for Jaluit Island harbor changing course from bearings of land. Fired gun for pilot at 7.30. At 7.45 stopped engines, and received pilot on board. Started ahead at 7.50 and headed in for anchorage. Called all hands bring ship to anchor. Aneroid, at end of watch 30.15.

Lieut

8 A.M. to Meridian. Cloudy weather. Calm first part, light airs from NE remainder of watch. At 8.40 came to with port anchor in 21 fathoms of water, veered to 45 fathoms on port chain. Bearings of anchorage. Beacon NE by E ¼ E. West end of small island N ¼ W. Northwest end of Jaluit N by E ½ E. Ship's head E by S. Draft 15 ft 6 in. forward, 16 ft 8 in. aft. Received an official visit from U.S. Consul. Got boiler into Steam Cutter and hoisted out sailing launch and steam cutter. Sent launch into the coal wharf to be loaded with coal. Rigged out starboard accommodation ladder. Banked fires and started fires in other two boilers for distilling water. Aneroid barometer 30.08. Captain S. H. Morrison of the wrecked ship "Ranier" came on board for passage to Yokohama, the remainder of the crew who came down to this island with him having been sent to Hong Kong in a German barque bound for that port. Aneroid barometer 30.10.

Lieut

Meridian to 4 P.M. Clear and warm. Light breeze from SE. At 3.30 commenced coaling ship. Aneroid 30.08.

Wainwright Kellogg Lieut

4 to 6 P.M. Fair and warm. Light variable airs. Barometer steady. Received on board 9½ tons of coal. Aneroid at 6 p.m. 30.08. Distilling.

Ensign

6 to 8 P.M. Weather clear and pleasant. Light breeze from NE. Barometer steady. Cumulus and cirro-cumulus clouds. Distilling water. Aneroid barometer 30.10.

Lieut

8 P.M. to Midnight. Weather partly cloudy and pleasant. Gentle breeze from NE. Barometer rising. Aneroid at end of watch 30.10. By order of Comdg Officer placed John Flaherty. '1st Fire.' in double irons for being drunk and disorderly.

Lieut

Moon 1 mid
Dec. 18°36′00″S
Phase. Full moon

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *"Steamer "Essex"*, *3d* Rate, *6* Guns,

Off Yaluit I. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
	Anchored		E N E	N N E	2		30.05	83	82	78		bc	Cir-cum Cum. & Cir	6	S.	
2	"		"	"	1		30.03	83	82	78		"	"	6	"	
3	"		"	"	1		30.02	83	82	78		"	"	6	"	
4	"		"	N E	1		30.02	83	82	78		"	"	5	"	
5	"		"	"	2		30.03	83	82	78		"	"	5	"	
6	"		"	"	2		30.05	83	82	78		"	"	4	"	
7	"		"	"	2		30.07	82	82	78		"	"	5	"	
8	"		"	"	2		30.09	82	82	78		"	"	4	"	
9	"		N E × E	"	2		30.09	82	82	78		"	"	4	"	
10	"		"	"	2		30.09	84	83	78		"	"	5	"	
11	"		"	"	2		30.09	84	83	77		"	"	5	"	
Noon.	"		E × N.	"	2		30.06	84	83	77		"	"	3	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ☉	° ′ ″	
Longitude by Chronometer from Forenoon Observations ☉	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ☉ observed at *8 a. m.*	*9° 00′ E*	
Water expended during the preceding 24 hours	*475*	gallons.
Water *distilled* during the preceding 24 hours	*1000*	"
Water remaining on hand fit for use at Noon	*2750*	"
Coal consumed during the preceding 24 hours	*1* tons	*1900* lbs.
Coal remaining on hand at Noon	*140* "	*1540* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
	Anchored		E × N.	N E.	2		30.05	86	85	80		bc	Cir cum & Cum	3	S	
2	"		N. E.	"	1		30.04	86	85	80		"	"	5	"	
3	"		"	"	1		30.03	86	85	79		"	"	5	"	
4	"		"	"	1		30.03	86	85	79		"	"	4	"	
5	"		"	"	1		30.01	84	84	79		"	"	5	"	
6	"		"	"	1		30.01	84	84	79		"	"	5	"	
7	"		"	"	1		30.03	84	83	78		"	"	5	"	
8	"		"	"	1		30.04	84	83	78		"	"	5	"	
9	"		E.	"	1		30.04	84	82	78		bcp	"	5	"	
10	"		E N E	"	1		30.06	84	82	78		bc	"	7	"	
11	"		"	"	1-2		30.06	84	82	78		bcp	"	7	"	
Mid.	"		"	"	1-2		30.06	84	82	78		bc	"	6	"	

Longitude by Chronometer from Afternoon Observations ☉	° ′ ″
Longitude by Chronometer from Observations *	° ′ ″
Variation of the Compass by Amplitude observed at sunset	° ′ ″
Variation of the Compass by *Az ☉* at *4 p. m.*	*8° 55′ E*

under the command of Commander A. H. McCormick, U. S. Navy,

Thursday. April 17th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Pleasant weather. Light breeze from N. N E. first hour falling very light, and hauling to N E. last hour. At 2.45 stopped distilling and hauled fires under distilling boilers. Aneroid barometer 30.10.

R. O. Bitler Ensign

4 to 8 A.M. Cloudy but pleasant. Gentle breeze from N. E. Sent in Launch to coal wharf at 5.45. At 6.15 crossed topgallant yards, and loosed sail to dry. Aneroid 30.16.

W. H. [illegible]
Comd Lieut

8 A.M. to Meridian Clear, warm, and pleasant. Light breeze from N E. Coaling ship. Total received on board, at end of watch 29 tons. Commanding Officer returned calls of United States and German Consuls. Aneroid barometer 30.14. Placed J. Flaherty '1 C' in double irons to await trial by Court-martial for drunkenness on duty.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Fair, warm, and pleasant. Light N E winds. Barometer falling. At 1.10 furled sail. Crew engaged coaling ship. Aneroid, at end of watch 30.06.

W. C. P. Muir Ensign

4 to 6. P.M. Weather clear and pleasant. Light breeze from N E. Barometer steady. Taking in coal, and stowing it. Aneroid barometer 30.08.

Ward [illegible] Lieut

6 to 8. P.M. Weather clear and pleasant. Light airs from Nd and Ed. Barometer rising. Finished coaling, having received 61¼ tons. Aneroid at end of watch 30.10

[illegible] Lieut

8 P.M. to Midnight. Clear and pleasant, with passing showers first, and third hours. Light airs to light breeze from N E. Aneroid barometer 30.11.

R. O. Bitler Ensign

Moon Lo. mid
Dec 17° 21' 32" S.
Phase. Full moon.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Off Jaluit I. Marshall Group.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			ENE	NE	1-2		30.06	84	82	78		bc	Ci cum	6	S.	
2	"		"	"	1-2		30.06	84	82	78		"	"	3	"	
3	"		"	"	2		30.06	84	82	78		"	"	4	"	
4	"			"	3		30.04	84	82	78		"	"	5	"	
5	"		"	"	2		30.04	83	82	77		"	"	5	"	
6	"		"	"	2		30.04	83	82	77		"	"	5	"	
7	"		"	"	2		30.05	83	82	77		"	"	5	"	
8	"		"	"	2		30.06	83	82	77		"	"	6	"	
9	"		"	"	2		30.07	83	82	78		"	Cir-cum & Cum	5	"	
10	"		"	"	2		30.08	83	82	78		"	"	7	"	
11	"		"	"	2		30.08	83	83	79		"	Ci Cum Cum & [illegible]	5	"	
Noon.	"		"	"	2		30.06	84	84	79		"	"	7	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ' "	
Longitude by D. R. at Noon	° ' "	
Latitude by Observations at Noon ⊙	° ' "	
Longitude by Chronometer from Forenoon Observations ⊙	° ' "	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "	
Variation of the Compass by Azimuth ⊙ observed at	° ' "	
Water expended during the preceding 24 hours	400	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	2350	"
Coal consumed during the preceding 24 hours	tons	400 lbs.
Coal remaining on hand at Noon	140 "	1140 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
Anchored			NE×E	NE.	2		30.04	85	84	79		bc	Ci. cum	7	S	
2	"		"	"	2		30.00	85	84	79		"	"	7	"	
3	"		"	"	3		29.99	85	84	79		"	"	4	"	
4	"		"	"	3		29.99	85	84	79		"	"	3	"	
5	"		"	"	2		29.99	85	84	79		"	"	4	"	
6	"		"	"	1		30.00	84	84	79		"	"	5	"	
7	"		"	"	2		30.01	84	84	79		"	"	4	"	
8	"		"	"	2		30.02	84	84	79		bcl	"	6	"	
9	"		"	"	2		30.03	83	82	78		"	Ci cum Cum & [illegible]	7	"	
10	"		"	"	2		30.04	82	82	78		bc	"	7	"	
11	"		"	"	2		30.04	81	81	78		"	"	6	"	
Mid.	"		"	"	2		30.04	81	81	78		"	"	5	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p.m. 9° 00' E"

under the command of Commander A. H. McCormick, U. S. Navy,

Friday. April 18th, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Warm, Gentle breeze from N.E. Aneroid barometer 30.09.

W. M. Irving Lieut

4 to 8 A.M. Clear and pleasant. Light to moderate breeze from N.E. Aneroid 30.13.

Wainwright Kellogg
WK Lieut

8 A.M to Meridian. Fair warm and pleasant. Light N.E winds. Barometer rising slowly. By order of Commanding Officer, confined for five days in double irons, Harry Gilbert, (SMM) offence, drunk on duty, and John Sullivan, (Pvt.) offence neglect of duty. Aneroid at end of watch 30.10.

W. P. White Ensign

Meridian to 4 P.M. Weather clear and pleasant. Light to gentle breeze from N.E. Barometer falling. Hoisted the launches and secured them for sea, Aneroid barometer 30.07.

Karl Rohrer KR Lieut

4 to 6 P.M. Weather clear and pleasant. Light airs from N.E. Barometer steady. Making preparations for sea. Mustered at quarters at 4.45. Aneroid at end of watch 30.08.

A. P. Lee Lieut

6 to 8 P.M. Clear and pleasant, Lightning last hour. Light breeze from N.E. Aneroid barometer 30.10. Making preparations for sea.

R. O. Bitler Ensign

8 P.M to Midnight, Cloudy and warm, Gentle breeze from N.E. Aneroid barometer 30.12

W. M. Irwin
WMI Lieut

Moon L. med Examined and found to be correct.
Dec 15° 36' 53 S
Phase Full moon,

W. S. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Off Jaluit I. Marshall Group

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	Anchored			NE+E.	NE	2		30.04	81	81	78		bc	cum & circum	4	S	
	2	〃		〃	〃	2		30.01	81	81	78		bcp	〃	3	〃	
	3	〃		〃	〃	3		30.01	81	81	78		bcd	〃	2	〃	
	4	〃		ENE.	〃	3		30.00	80	78	77		ocr	〃	0	〃	
	5	〃		〃	W.	2		30.00	80	79	78		ocdlq	Cumi Nimb	0	〃	
	6	〃		NW.	NW.	2		30.02	80	79	78		ocr	〃	0	〃	
	7	〃		〃	〃	1		30.02	82	78	77		bcr	〃	1	〃	
	8	〃		〃	〃	1		30.03	82	78	77		〃	〃	1	〃	
5 55	Underway 9	1	4	NE½E	NE.	1		30.04	80	78	76	84	ocr	〃	0	〃	
S, 169 30'	10	4 3	5 0	〃 North	〃	1		30.06	80	78	76	84	〃	〃	0	〃	
	11	7	8	NW.	〃	1		30.07	80	79	76	84	〃	〃	0	〃	
	Noon.	8	2	〃	〃	1		30.07	79	78	76	84	〃	〃	0	〃	

Distance run by Log since preceding Noon *24* knots *9* ~~fathoms.~~ *tenths*

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon⊙ ° ' "

Longitude by Chronometer from Forenoon Observations⊙ ° ' "

1168. Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2050* "

Coal consumed during the preceding 24 hours *4* tons *2000* lbs.

Coal remaining on hand at Noon *134* " *240* "

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.																
	1	8	4	NW.	N.	2		30.06	78	78	75	84	ocd	cum & nimb	0	S	Set jib. fore topt stsl
	2	8	2	WNW½W.	〃	2		30.04	78	77	75	84	ocr	〃	0	〃	and main trysail
	3	7	8	〃	NNE	1		30.03	78	77	75	84	〃	〃	0	〃	Set fly-jib spanker and
	4	8	0	〃	〃	1		30.03	78	78	76	84	〃	〃	0	〃	foresail
	5	7	8	〃	NE.	3		30.03	78	78	76	84	〃	〃	0	〃	Plain sail to royals
	6	6	0	〃	〃	3		30.05	80	78	76	84	〃	〃	0	〃	Took in spanker
N	7	4	5	〃	〃	3		30.06	80	78	76	84	bc	〃	4	〃	All stbd stunsails
6°38' E	8	4	5	〃	〃	3		30.06	80	78	76	84	〃	〃	6	〃	except lowers
168°05'	9	4	0	〃	ENE	3		30.06	80	79	76	84	〃	cirrcum & nimb	5	〃	
	10	4	3	〃	〃	3		30.06	80	79	76	84	〃	〃	5	〃	
	11	4	7	〃	〃	3		30.06	80	79	77	83	〃	〃	5	〃	
	Mid.	4	4	〃	〃	3		30.06	80	79	77	83	〃	〃	5	〃	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Saturday, April 19th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Heavy showers of rain last hour of watch. Light breeze from N.E. Aneroid 30.09.

Wainwright Kellogg
W.K. Lieut

4 to 8 A.M. Weather overcast and rainy. Light breeze from West to N.W. At 4.50 started fires under six furnaces. Brought to chain and made preparations for getting under way. Barometer steady. Aneroid barometer 30.16

Karl Rohrer, Lieut

8 A.M. to Meridian. Weather overcast with drizzling rain. Light airs from N.E. Barometer rising. Called all hands up anchor at 8.00, got underway at 8.30 and steamed out under direction of Commanding Officer, heading N.E.½E. (pc.) when clear of entrance to harbor. Changed course to North at 9.40 and to N.W. at 10.00 off East Cape. Draft of water, 13 ft 11 in. ford, 15 ft 11 in. aft. Aneroid at end of watch 30.14. Steam 52, Revs 47. Patent log 69.8. Land visible along port beam extending at intervals to bow and quarter.

C. P. Rees Lieut

Meridian to 4 P.M. Overcast, cloudy and rainy. Gentle breeze from North, hauling to N.N.E. At 12.15 set jib, fore topmast staysail and spanker. At 12.37 N end of N. island bore W by S. Ships head N.W. patent log recording 75.2 At 1.00 changed course to W.N.W.½W. patent log recording 78.4. Set foresail flying jib and spanker. At 2.15 hauled fires under the two port boilers. Steam 52.7. Revolutions. 47. Patent log 103.8. Aneroid barometer 30.14.

W. M. Irons Lieut

4 to 6 P.M. Cloudy. Sultry. Light breeze from N.E. Smooth sea. At 4.30 set all plain sail to royals, and took in spanker. At 5.40 stopped steaming and disconnected screw. Banked fires. At 6.00 set stbd. topgallant and topmast stunsails. Aneroid 30.16.

Wainwright Kellogg
Lieut

6 to 8 P.M. Weather clear and pleasant with gentle breeze from N.E. Barometer rising. Fires banked under four boilers. Aneroid barometer 30.18 Patent log. 25.5.

Karl Rohrer, Lieut

8 P.M. to Midnight. Weather partly cloudy and pleasant, Barometer steady. Gentle breeze from E.N.E. Steering a course, W.N.W.½W. Banked fires Aneroid, at end of watch 30.19. Patent log 42.

C. P. Rees Lieut

Moon l mid Examined and found to be correct.
Dec 12° 46' 30" S.
Phase. Last quarter

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"* , *3d* Rate, *6* Guns,

Making passage from Jaluit I. Marshall Group to Yokohama, Japan

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
					Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
	A. M.																
	1	4	2	W N W ½ W	E N E	3		30.05	80	79	76	83	bc	Cir. cum & cumuls	7	S	All square sail except mainsail. Fore and aft sail except spanker.
	2	4	0	"	E.	3		30.04	80	80	77	83	"	Cir & Cir-Cum	5	"	
	3	3	6	"	"	3		30.03	80	80	77	83	"	"	3	"	Stbd stunsails except lowers.
	4	3	2	"	E by S.	2		30.03	80	80	77	83	"	"	6	"	Took in fore and aft sail except jib. Took in stuns
	5	3	0	"	"	2		30.03	80	79	76	80	"	"	6	"	
	6	1	6	"	"	2		30.03	80	79	76	80	"	"	7	"	
	7	1	4	"	"	1		30.03	80	79	76	80	"	"	8	"	Took in jibs
n 7° 00'	8	1	0	"	"	1		30.04	83	80	77	83	"	"	9	"	
E 168° 11'	9	1	0	"	"	1		30.08	85	82	78	83	"	"	6	"	
	10	3	0	"	"	1		30.07	84	83	79	84	"	"	5	"	Furled sail
	11	6	8	"	W N W	1		30.07	84	83	79	85	"	Cir cum strat	7	"	
	Noon.	6	4	"	"	1		30.07	84	84	78	85	"	Ci. cum	6	"	

Distance run by Log since preceding Noon *111* knots *8* ~~fathoms.~~ *tenths*

Latitude by D. R. at Noon *7° 04' 06" N*

Longitude by D. R. at Noon *167° 49' 30" E*

Latitude by Observations at Noon ⊙ *7° 07' 08" N*

Longitude by Chronometer from Forenoon Observations ⊙ *167° 58' 30" E*

Current during the time *0.3* knots ~~fms.~~ per hour, setting to the *N 65° E*

1168 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at *8. a. m.* *8° 30' E*

Water expended during the preceding 24 hours *350* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1700* "

Coal consumed during the preceding 24 hours *6* tons *930* lbs.

Coal remaining on hand at Noon *127* " *1550* "

	Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.																
	1	6	5	W N W ½ W.	N N W.	1		30.05	83	84	78	85	bc	Ci cum strat	6	S	Set fore and aft sail except spanker
	2	7	0	"	N by E.	2		30.03	83	82	77	85	"	"	6	"	
	3	7	0	"	"	2		30.03	83	82	77	85	"	"	7	"	
	4	6	8	"	"	2		30.02	83	82	77	85	"	"	7	"	
	5	7	2	"	N N W.	2		30.02	82	81	76	84	"	"	6	"	Set square sail except mainsail
	6	7	2	"	N. N E.	2		30.03	82	81	77	84	"	"	6	"	
	7	6	0	"	"	2		30.03	82	81	76	84	"	"	7	"	
n 7° 29'	8	3	6	"	"	3		30.04	82	81	76	84	"	"	6	"	
E 167° 09'	9	3	0	"	"	2		30.05	83	81	77	84	"	Ci cum nimb	8	"	Set spanker
	10	3	0	"	"	2		30.05	84	81	77	84	"	"	4	"	
	11	4	5	"	"	3		30.06	85	81	77	84	bclp	"	7	"	
	Mid.	5	0	"	"	4		30.06	85	81	77	84	"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ *167° 58' 00" E*

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by *Az ⊙* at *4 p.m.* *8° 30' E*

under the command of Commander A. H. McCormick, U. S. Navy;

Sunday, April 20th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A.M. Pleasant weather. Light breeze from E.N.E. At 1.30 took in flying jib, fore topmast staysail, and main trysail, and at 3.45 took in starboard stunsails. Aneroid barometer 30.10. Patent log. 53.1.

W. M. Irwin Lieut

4 to 8. A.M. Clear, and hot. Light airs from E by S. Smooth sea. Banked fires. Aneroid 30.15.

Wainwright Kellogg WK Lieut

8 A.M to Meridian. Clear, and pleasant weather. Light breeze from E by S. hauling to N.N.W. Barometer steady. At 8.45 spread fires. At 9.15 mustered and inspected crew at quarters. At 9.18 furled sail, and went ahead under steam. Aneroid barometer 30.10. Steam pressure 42 lbs; revolutions 38.6. Patent-log at end of watch 70.6.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather clear, and warm. Light airs from N by E. Barometer steady. Set fore and aft sail except spanker at 1.30. Aneroid at end of watch 30.08. Steam 51. Rev. 44.2. Pat log 1.7 miles.

Lieut

4 to 6 P.M. Pleasant weather. Light breeze from N.N.W. hauling to N.N.E. At 5.15 set foresail, and at 5.25 all square sail except mainsail. Steam 45 lbs Revs. 42. Aneroid 30.13. At 5.35 let fires run down, and banked them.

W. M. Irwin Lieut

6 to 8. P.M. Clear, and warm. Light breeze from N.N.E. Smooth sea. At 6.45 stopped steaming, and disconnected screw. Banked fires. Aneroid 30.11.

Wainwright Kellogg Lieut

8 P.M to Midnight. Clear, and pleasant weather. Light to moderate breeze from N.N.E. Barometer steady. Smooth sea. Fires banked. Patent log at 12 oc 42.3. Aneroid barometer 30.13.

Karl Rohrer, Lieut

Moon l. mid
Dec 9° 23' 28." S.
Phase. Last quarter.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Jaluit I. Marshall Group to Yokohama Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	5	6	W.N.W.½W.	N.E.	4		30.05	81	80	77	84	bc	Cir. cum nimb	5	S	Plain sail ex. mainsail
2	5	6	"	"	4		30.03	80	80	77	84	"	"	5	"	
3	6	0	"	"	4		30.02	80	79	76	84	"	"	5	"	
4	6	2	"	"	4		30.02	79	79	76	84	"	Ci Cum	6	"	
5	6	4	"	"	4		30.04	79	79	76	84	"	"	6	"	
6	5	8	"	"	4		30.06	79	79	76	83	"	Cirrus Cir. Cum	4	"	
7	5	8	"	"	4		30.08	79	79	76	83	"	Cum & nimbus	3	"	
8	6	0	"	"	4		30.10	80	79	76	83	"	"	3	"	
9	6	2	"	"	4		30.10	80	79	76	83	"	Cir Cum	5	"	
10	5	4	"	"	4		30.09	81	80	76	83	"	"	6	"	Set all stbd. stunsails
11	5	4	"	"	4		30.07	81	81	76	83	"	"	6	"	and took in spanker
Noon.	4	2	"	"	4		30.07	81	81	76	83	"	"	5	"	

n 7°47'
E 166°14'

1168

Distance run by Log since preceding Noon	135 knots 4 ~~fathoms.~~
Latitude by D. R. at Noon	8° 06' 00" N
Longitude by D. R. at Noon	165 53' 00" E
Latitude by Observations at Noon ⊙	7° 56' 00" N
Longitude by Chronometer from Forenoon Observations ⊙	165° 55' 00" E
Current during the time 0.48 knots ~~fms.~~ per hour, setting to the	S 17° E
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "
Variation of the Compass by Azimuth ⊙ observed at 8. a. m.	8° 30' E
Water expended during the preceding 24 hours	350 gallons.
Water during the preceding 24 hours	"
Water remaining on hand fit for use at Noon	1350 "
Coal consumed during the preceding 24 hours	4 tons 1670 lbs.
Coal remaining on hand at Noon	122 " 2120 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.	2	5	W.N.W.½W.													
1	2	5	N.W.×W.½W.	N.E.	4		30.05	83	83	77	83	bc	Cir. Cum & Cir. Cum	5	S	
2	4	0	"	"	3		30.02	83	82	77	83	"	Ci. Cum nimbus & Cir-Cum	4	"	
3	4	0	"	"	3		30.01	84	82	77	83	"	"	5	"	
4	4	5	"	"	3		30.00	84	82	77	83	"	"	5	"	
5	3	6	"	"	3		30.02	82	81	77	83	"	Cir-Cum - nimbus	5	"	
6	4	2	"	N.E.×N.	3		30.02	81	81	77	83	"	"	4	"	Took in stbd. lower and all
7	4	6	"	N×E	4		30.04	81	80	76	83	bcp	"	4	"	stunsails. and set
8	5	0	"	N.E.	4		30.06	81	80	76	83	bc	"	5	"	spanker & fore topt
9	5	2	"	"	4		30.06	81	80	76	83	"	"	6	"	staysail.
10	5	6	"	"	4		30.07	82	80	76	83	"	"	6	"	
11	5	4	"	"	4		30.07	82	80	76	83	"	"	7	"	
Mid.	4	6	"	"	4		30.07	82	80	76	83	"	"	8	"	

8°16' n.
E 165°23

Longitude by Chronometer from Afternoon Observations ⊙	165° 51' 00" E
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Monday, April 21st, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Gentle to moderate breeze from N E. Barometer steady. Steering a course W N W ½ W. Aneroid at end of watch 30.12. Patent log 66 miles.

C. Rees Lieut

4 to 8 A.M. Pleasant weather. Moderate breeze from N E. Smooth sea. Aneroid barometer 30.20. Fires banked. Patent log at end of watch 85.4 miles.

W. M. Irwin Lieut

8 A.M. to Meridian. Clear and hot. Light breeze from N E. Smooth sea. At 8.30 set all starboard stunsails and took in spanker. At 9.15 mustered at quarters; had battalion drill and afterwards company drill. At 11. Commenced distilling. Aneroid 30.16. Banked fires. Patent log at end of watch 106 miles.

Wainwright Kellogg

WK Lieut

Meridian to 4 P.M. Clear and pleasant weather. Gentle to moderate breeze from N E. Barometer falling. Smooth sea. Distilling water. Fires banked under four boilers. Aneroid barometer 30.10. Patent log at end of watch 29.1. At 12.30 changed course to N W by W ½ W. by order of Captain, patent log showing 13 knots at the time.

Karl Rohrer Lieut

4 to 6 P.M. Weather partly cloudy and pleasant. Gentle breeze from N E. Barometer steady. Mustered at quarters at 4.45. Exercised at fire quarters at 4.50. Took in lower stunsail at 5.50. Distilling. Aneroid at end of watch 30.12

C. Rees Lieut

6 to 8 P.M. Cloudy with passing showers first hour. Moderate breeze from N by E. hauling to N E. At 6.30 took in starboard topgallt and ~~fore topmast~~ stunsails, and set fore topmast staysail and spanker. Aneroid bar. 30.17. Patent log 46.3.

W. M. Irwin Lieut

8 P.M. to Midnight. Clear and pleasant. Moderate breeze from N E. Banked fires under four boilers. Distilling. Aneroid 30.14. Patent log 68.

Wainwright Kellogg Lieut

Moon L mid Examined and found to be correct.
Dec 5° 20' 10. S.
Phase, Last quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Jaluit Marshall Islands to Yokohama Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	Force.	Leeway	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	5	0	NW×W½W	NE×N.	4		30.03	82	81	77	83	bc	Cum & Cir. cum	6	S	Plain sail to royals
8-30 N 2	5	5	"	NE.	4		30.02	82	81	77	83	"	Cir	4	"	except main sail
165° E 3	3 2	0 5	NNW	NE×E.	4		30.00	82	81	77	82	"	Cir Cum	8	"	
4	5	0	"	"	4		29.99	82	81	77	82	"	Cir & Cir cum	6	"	
5	5	2	"	NE.	4	½	30.00	80	80	76	82	"	Nimbus cirro cum & stratus	5	"	
6	5	2	"	"	4	½	30.00	80	80	76	82	"	"	5	"	
7	5	0	"	"	4	½	30.05	81	80	76	82	"	Cir Cum	5	"	
N 8°58 E 8	5	2	"	"	4	½	30.07	81	81	77	82	"	"	5	"	
164°40 9	2 2	6 6	N×W¾W.	NE×E.	4		30.08	81	81	77	82	"	"	4	"	
10	5	2	"	"	4		30.08	81	81	76	82	"	Cir & Cir-cum	5	"	
11	5	0	N×W¼W.	NE×E	4		30.07	82	81	76	82	"	"	7	"	
Noon.	4	8	N×W½W	"	4		30.05	82	81	77	82	"	"	5	"	

Distance run by Log since preceding Noon 117 knots 5 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 9° 24' 37" N

Longitude by D. R. at Noon 164° 42' 06" E

Latitude by Observations at Noon ☉ 9° 18' 29" N

Longitude by Chronometer from Forenoon Observations ☉ 164° 36' 51" E

Current during the time 0.32 knots ~~fms.~~ per hour, setting to the S49° W

Variation of the Compass by Amplitude ☉ observed at Sunrise ° ' "

1167 Variation of the Compass by Azimuth ☉ observed at 8 a.m. 8° 00' E

Water expended during the preceding 24 hours 350 gallons.

Water distilled during the preceding 24 hours 1650 "

Water remaining on hand fit for use at Noon 2750 "

Coal consumed during the preceding 24 hours 3 tons 820 lbs.

Coal remaining on hand at Noon 119 " 1290 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	4	6	N×W¾W.	ENE.	4		30.03	82	81	77	82	bc	Cir cum	6	S	
2	4	0	NNW.	NE	4		30.08	82	81	77	82	"	"	4	"	
3	4	6	"	"	4		30.08	82	81	77	82	"	"	4	"	
4	4	0	"	"	4		30.07	82	81	77	82	"	"	4	"	
5	3	5	"	"	3		30.00	82	81	76	82	"	"	8	"	
6	4	0	"	"	3		30.01	83	81	76	82	"	"	6	"	
7	3	5	NNW½W.	"	3	½	30.03	83	81	76	82	"	Cir Cum Cir strat	4	"	
N 9°49' E 8	3	5	"	"	3	½	30.04	83	81	76	82	"	Cir and Cir cum	6	"	
164°22 9	5	0	N×W¼W.	ENE.	4		30.05	81	80	76	82	"	"	7	"	
10	5	4	N by W.	"	4		30.05	81	80	76	82	"	"	8	"	
10 N 11	5	2	N×W½W	NE×E.	4		30.05	81	80	76	82	"	"	7	"	
164-14 E Mid.	5	0	"	"	4		30.04	80	80	76	82	"	"	7	"	

Longitude by Chronometer from Afternoon Observations ☉ 164° 30' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Tuesday April 22d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant weather. Moderate breeze from N E by N. to N E by E. At 12.50 stopped distilling and hauled two fires with which we had been distilling. Fires banked under four boilers. Barometer falling. At 2.40 changed course to N.N.W by order of Captain; patent log indicating 83.3. Aneroid barometer 30.10. Patent log at end of watch 90.6 knots

Karl Rohrer, Lieut

4 to 8 A.M. Weather partly cloudy and pleasant. Gentle breeze from N.E. Smooth sea. Barometer rising. Fires banked. Aneroid at end of watch 30.16. Patent log 13.8.

Lieut

8 A.M. to Meridian. Pleasant weather. Moderate breeze from N E to N E by E. Smooth sea. At 9.15 inspected crew at quarters, after which exercised divisions at great guns. Changed course at 8.30 to N by W. Patent log recording 16.5. Remainder of watch steering full and by, ship off her course from 1/4 to 3/4 of a point. Aneroid barometer 30.12. Patent log at end of watch 32.7. Fires banked.

Lieut

Meridian to 4 P.M. Clear and pleasant. Light to moderate breeze from E N E to N E. Smooth sea. Aneroid 30.08. Patent log at end of watch 80 knots. Banked fires.

W. Livingston Kellogg
Lieut

4 to 6. P.M. Clear and pleasant weather. Moderate breeze from N E. Barometer rising. Smooth sea. Fires banked under four boilers. Patent log at end of watch indicating 58.1 knots. Aneroid barometer 30.11.

Karl Rohrer, Lieut

6 to 8 P.M. Weather clear and pleasant. Gentle breeze from N E. Barometer rising. Aneroid at end of watch 30.13. Fires banked. Patent log 66.3.

Lieut

8 P.M. to Midnight. Pleasant weather. Moderate breeze from E N E. to N E by E. Smooth sea. Fires banked. Aneroid barometer 30.15. Patent log at the close 84.9.

Lieut

Moon's mid Examined and found to be correct.
Dec 0° 56' 30". S.
Phase. Last quarter.

W. H. Parker
Lieut, Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Jaluit, Marshall I's to Yokohama, Japan.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
					Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
	A. M.																
	1	6	0	N × W 3/4 W	N E	3-5		30.00	81	78	75	82	bcqd	Cir cumulus	2	S	Plain sail to royals
	2	5	8	"	"	4-5		29.98	81	78	76	82	bc	"	4	"	except mainsail
	3	5	5	N N W.	"	4-5		29.98	81	78	76	82	"	"	7	"	
	4	5	8	"	"	4-5		29.98	81	78	76	82	"	"	7	"	
	5	5	5	N × W 1/2 W.	N E × E	4		29.98	81	80	76	82	"	Cumu & Cir Cumu	4	"	
	6	5	0	N × W 3/4 W.	"	4		30.00	81	80	76	82	"	"	7	"	
n	7	5	0	N N. W	"	4		30.02	81	80	76	82	"	"	7	"	
10°43' E	8	5	0	N × W 1/2 W.	"	4		30.04	82	80	76	82	"	Ci-Cumu	7	"	
163°58'	9	4	4	N × W 1/4 W.	"	4	1/2	30.06	82	80	76	82	"	"	7	"	
	10	4	4	N × W 1/2 W.	"	4	1/2	30.06	82	81	76	82	"	"	7	"	
	11	4	4	N N. W.	"	4	1/2	30.04	81	81	76	82	"	"	7	"	
	Noon.	4	7	"	"	4	1/2	30.04	81	81	76	82	"	"	7	"	

Distance run by Log since preceding Noon 113 knots 8 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 11° 08' 47" N

Longitude by D. R. at Noon 164° 05' 30" E

Latitude by Observations at Noon ☉ 11° 00' 00" N

Longitude by Chronometer from Forenoon Observations ☉ 163° 53' 30" E

Current during the time 0.66 knots ~~fms.~~ per hour, setting to the S 54° W

1138 Variation of the Compass by Amplitude ☉ observed at Sunrise 8° 05' 05" E

Variation of the Compass by Azimuth ☉ observed at 8. a.m. ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours — "

Water remaining on hand fit for use at Noon 2450 "

Coal consumed during the preceding 24 hours 1 tons 690 lbs.

Coal remaining on hand at Noon 118 " 600 "

	Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
	P. M.	2	7	N. N W.													
	1	2	7	N W × N.	N. E.	4		30.02	80	80	75	82	bc	Cir & Cir cumu	7	S	
	2	4	8	"	"	4		30.00	80	80	76	82	"	"	5	"	
	3	5	0	"	"	4		29.98	80	80	75	82	"	"	5	"	
	4	5	0	"	"	4		29.96	80	80	75	82	"	"	3	"	
	5	5	6	N. W.	N N E.	4		29.97	80	79	75	82	"	"	4	"	
	6	6	0	"	"	4		29.98	80	79	75	82	"	Cir Cumu & Strat	4	"	
n	7	2 1	5 5	N × W.	N E × N.	4		30.02	80	79	75	82	"	Cir	5	"	Furled all sail.
11°35' E	8	4	5	"	"	4		30.02	80	79	75	82	"	Cir Cumu	9	"	
163°20'	9	5	2	"	"	4		30.02	80	79	75	82	"	"	8	"	
	10	5	8	"	"	4		30.02	80	79	75	82	"	"	8	"	
	11	6	0	"	"	4		30.02	80	79	75	82	"	"	8	"	
	Mid.	6	0	"	"	4		30.02	80	79	75	82	"	"	8	"	

Longitude by Chronometer from Afternoon Observations ☉ 163° 48' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by az ☉ at 4 p.m. 7° 50' E

under the command of Commander A. H. McCormick, U. S. Navy;
Wednesday April 23d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4. A.M. Clear and pleasant. Light drizzle first hour of watch. Moderate breeze from N E. Smooth sea. Moon arose at 3.35 Aneroid 30.10. Patent log 108. Banked fires.

Wainwright Kellogg WK Lieut

4 to 8. A.M. Clear and pleasant weather. Moderate breeze from N E by E. Barometer rising. Smooth sea. Fires banked under four boilers. Aneroid barometer 30.14. Patent log at end of watch indicated 28.7 Knots.

Karl Rohrer KR Lieut

8 A.M. to Meridian. Weather clear and pleasant. Gentle to moderate breeze from Nd and Ed. Barometer steady. By order of Commanding Officer released H. Gilbert. (S.M.M.) and John Sullivan. (P.M.) from confinement. Gave Geo. H. Jordan. (Lds.) seven extra first watches for refusing to obey orders of W. A. Steward. Mustered at quarters at 9.15 and exercised Signal Class at signalling. A Summary Court Martial of which Lieut W. H. Parker was the Senior Member, convened at 9.45 for the trial of John Flaherty. (C. Fire.) and adjourned at 10.45. Fires banked. Steering full and by to N by W. Aneroid at end of watch 30.13. Patent log 48.3.

J.P. Kies Lieut

Meridian to 4 P.M. Clear and pleasant. Moderate breeze from N E. Smooth sea At 12.30 changed course to N W by N; patent log reading 51 miles. Aneroid barometer 30.08. Patent log 68.5.

W.M. Irwin WMI Lieut

4 to 6. P.M. Clear and pleasant. Moderate breeze from N N E. Smooth sea At 4.45 mustered at quarters. Patent log 80.1. Aneroid 30.11.

Wainwright Kellogg WK Lieut

6 to 8. P.M. Weather clear and pleasant. Moderate breeze from N E by N. Barometer rising. At 6. spread fires. At 6.25 shortened and furled sail, and started ahead with the engine at 6.40, putting the ship on the course N by W. by order of the Captain. Under steam and fore and aft sail. Steam pressure 38 lbs, and making 33 revolutions. Patent log indicating 83 Knots when ship was put on course N. W, and indicating 90.1 Knots at 8. Aneroid barometer 30.13

Karl Rohrer Lieut

8 P.M. to Midnight. Weather clear and pleasant. Gentle breeze from N E by N. Barometer steady. Course N by W. Aneroid at end of watch 30.15. Steam 39.2. Revs. 43.3. Patent log.

J.P. Kies Lieut

Moon l. mid. Examined and found to be correct.
Dec. 3° 38' 46" N.
Phase. Last quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Jaluit, Marshall Is to Yokohama, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	6	2	N×W.	NE	4		30.01	79	79	74	82	bc	Cir cum & cumulus	7	S	
2	6	4	"	"	4		30.00	79	78	74	82	"	Cir cum	8	"	
3	6	8	"	"	4		29.98	79	78	74	82	"	"	7	"	
4	6	6	"	"	4		29.98	79	78	74	82	"	"	7	"	
5	6	8	"	"	4		30.00	79	78	75	82	"	"	7	"	
6	7	0	"	"	4		30.00	79	78	75	82	"	"	8	"	Set foresail.
7	3 2	0 0	N.W.	"	4		30.04	80	78	75	82	"	"	8	"	Set plain sail to royals
12°40' N 8	4	0	"	"	4		30.06	80	78	75	82	"	"	9	"	except mainsail.
165°06' E 9	4	0	"	NE×N.	3		30.08	81	79	76	82	"	"	5	"	
10	4	0	"	"	3-4		30.08	82	80	77	82	"	"	3	"	Set main sail and took in main trysail
11	4	5	"	"	4		30.08	84	81	78	82	"	"	4	"	
Noon.	4	0	"	"	3		30.08	85	81	78	82	"	"	5	"	

Distance run by Log since preceding Noon	128 knots 6 tenths ~~fathoms~~.
Latitude by D. R. at Noon	12° 58' 30" N
Longitude by D. R. at Noon	163° 10' 00" E
Latitude by Observations at Noon ⊙	12° 58' 00" N
Longitude by Chronometer from Forenoon Observations ⊙	162° 56' 00" E
Current during the time 0.62 knots ~~fms.~~ per hour, setting to the	S71°W
1138 Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "
Variation of the Compass by Azimuth ⊙ observed at 8 a. m.	8° 00' 00" E
Water expended during the preceding 24 hours	350 gallons.
Water during the preceding 24 hours	"
Water remaining on hand fit for use at Noon	2100 "
Coal consumed during the preceding 24 hours	7 tons 560 lbs.
Coal remaining on hand at Noon	111 " 560 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	5	0	N. W.	NE×N.	4		30.05	80	79	77	82	bcp	Cir cum & cumulus	4	S	
2	5	4	"	NE.	4		30.03	80	80	77	82	bc	"	6	"	Set stbd topt & topgt stunsls
3	6	0	"	NE×E.	5		30.01	80	80	77	82	"	"	4	"	
4	6	2	"	"	5		30.00	80	80	77	82	"	Cir-cum	6	"	
5	7	0	"	NE	5		30.00	80	80	77	82	"	Cir-cum Cum-nimb	5	"	
6	7	2	"	"	5		30.02	80	80	77	81	"	"	5	"	
7	7	4	"	"	5-6		30.04	80	80	77	81	bcqp	"	5	"	Took in stbd topt and topgt stunsails & spanker
13°42' N 8	7	6	"	"	5-6		30.04	80	80	77	81	bc	"	6	"	
161°23' E 9	7	5	"	"	5		30.03	81	81	77	81	"	Cir & cum	8	"	
10	7	5	"	"	5		30.03	81	81	77	81	"	"	6	"	
11	7	5	"	"	5		30.03	81	81	77	80	"	"	7	"	
Mid.	7	5	"	"	5		30.03	81	81	77	80	"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙	162° 50' 00" E
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by Az ⊙ at 4 p.m.	7° 50' 00" E

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday April 24th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, bright starlight. Moderate breeze from N.E. Smooth sea. Aneroid barometer 30.12. Patent log at end of watch 43.4 Knots.

W. M. Irwin
WMI Lieut

4 to 8 A.M. Clear and pleasant. Light breeze from N E. Smooth sea. At 5. set foresail, At 6.25 made all plain sail to royals, except mainsail At 6.27 changed course to N.W. hauled fires and stopped engine Disconnected screw. Aneroid 30.18. Patent log 66. Wainwright Kellogg
WK Lieut

8 A.M to Meridian. Weather clear and pleasant. Gentle to moderate breeze from N E by N. Barometer steady. Lowered smokestack and set mainsail. Engaged in getting boats ready for painting, and mending fore topsail. Smooth sea. Aneroid barometer 30.16.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather generally clear and pleasant. Moderate breeze from Nd and Ed. Barometer falling. Steering a course N.W. (p.c.) Called all hands to muster at 1.00, and read sentence of John Flaherty, 1 (Fire) tried by Summary Court Martial, and in accordance therewith placed him in solitary confinement for fifteen days. Set starboard topmast and topgallant stunsails at 2.30. Aneroid at end of watch 30.10. Patent log at 4 P.M. 103.1.

Lieut

4 to 6. P.M. Pleasant weather. Fresh breeze from N.E. Smooth sea. Mustered at quarters at 4.45. Aneroid barometer 30.14.

W. M. Irwin Lieut.

6 to 8 P.M. Clear and pleasant. Moderate to fresh breeze from N E. Smooth sea. At 6.30 took in topgallt stunsails and at 8. topmast stunsails. Patent log 31.7. Aneroid 30.16. Wainwright Kellogg
WK Lieut

8 P.M to Midnight. Clear and pleasant weather. Fresh breeze from N.E. Barometer steady. Smooth sea. Bright starlight. Patent log at 12. 61 Knots Aneroid barometer 30.18.

Karl Rohrer Lieut

Moon l mid Examined and found to be correct.
Dec 8°08'33." N.
Phase. Last quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Jaluit: Marshall I's to Yokohama, Japan.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
					Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
	A. M.																
	1	7	0	N.W.	NE	5		30.03	80	79	77	80	bc	Cir cum & cumuli	5	S	Plain sail to royals
	2	7	0	"	"	5		30.03	80	79	77	80	"	"	5	"	except spanker
	3	6	5	"	"	5		30.03	80	79	77	80	"	"	5	"	
	4	6	6	"	"	5		30.04	80	79	77	80	"	"	4	"	
	5	7	2	"	"	5		30.04	80	79	77	80	"	"	7	"	
	6	7	4	"	"	5		30.04	80	78	76	80	"	Cir. Cir Cum & Cum	3	"	
	7	7	8	"	"	5		30.06	79	79	76	80	"	"	5	"	
n 14°33	8	7	4	"	"	5		30.06	80	79	76	80	"	"	7	"	Set stbd fore topt stunsails
E 161°05	9	8	0	"	"	5		30.08	80	80	77	80	"	"	7	"	
	10	8	2	"	"	5		30.10	80	80	77	80	"	"	7	"	
	11	8	2	"	"	5-6		30.10	80	80	77	80	bcqp	"	7	"	Took in fore topt stunsl
15 n 160-44	Noon.	8	2	"	"	5-6		30.08	81	81	77	80	"	"	7	"	royals & flying jib.

Distance run by Log since preceding Noon	171 knots 3 tenths ~~fathoms~~.	
Latitude by D. R. at Noon	15° 08' 00"	n
Longitude by D. R. at Noon	161° 02' 00"	E
Latitude by Observations at Noon ⊙	15° 00' 00"	n
Longitude by Chronometer from Forenoon Observations ⊙	160° 44' 00"	E
Current during the time 0.83 knots ~~fms.~~ per hour, setting to the	S85°W	
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "	
1109 Variation of the Compass by Azimuth ⊙ observed at 8 a.m.	7°50'00"	E
Water expended during the preceding 24 hours	350 gallons.	
Water during the preceding 24 hours	"	
Water remaining on hand fit for use at Noon	1750 "	
Coal consumed during the preceding 24 hours	tons 400 lbs.	
Coal remaining on hand at Noon	110 " 1880 "	

	Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of the sail.
	P. M.																
	1	7	5	N.W	N.E.	5		30.10	82	81	77	80	bc	Cir & Cum	8	S	Set royals & fly. jib
	2	7	0	"	"	5		30.11	82	81	77	80	"	Cir cum Strat	6	"	
	3	7	0	"	"	5		30.12	82	81	77	80	"	Cir cum & cum	5	"	
	4	7	0	"	"	5		30.10	82	81	77	80	"	Cir cum Cum Nimb	6	"	
	5	7	0	"	"	5		30.07	81	80	76	80	"	"	6	"	
N 58	6	7	2	"	"	5		30.07	81	80	76	80	"	"	6	"	
160°E	7	8	0	"	"	5		30.08	81	80	76	80	"	"	5	"	
n 16°02	8	8	0	"	"	5		30.10	80	80	76	80	"	"	3	"	
E 159°56	9	8	8	"	"	5-6		30.10	80	78	76	80	bcqp	"	5	"	
	10	8	0	"	"	5-6		30.10	80	78	76	80	"	"	8	"	
	11	8	2	"	"	5-6		30.12	80	78	76	80	"	"	7	"	
	Mid.	8	0	"	"	5-6		30.12	80	78	76	80	"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙	160° 36' 00"	E
Longitude by Chronometer from Observations *	° ' "	
Variation of the Compass by Amplitude observed at sunset	° ' "	
Variation of the Compass by az ⊙ at 4 p.m.	7° 45' 00"	E

under the command of Commander A. H. McCormick, U. S. Navy,

Friday April 25th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather generally clear and pleasant. Moderate breeze from N.E. Barometer steady. Course N.W. (pc) Aneroid at end of watch 30.18. Patent log 87.8.

C.P. Rees Lieut

4 to 8 A.M. Pleasant weather. Moderate breeze from N.E. Smooth sea. Barometer steady. At 7.30 set fore topmast stunsail. Aneroid bar. 30.24. Pat. log 117.7.

W.M. Irwin Lieut

8 A.M. to Meridian. Clear and pleasant with passing rain squalls last two hours. Strong breeze from N.E by E. At 9.15 went to general quarters for exercise. At 10.20 took in fore topmast stunsail and at 10.40 took in royals and flying jib. By order of Commanding Officer confined F. B. Barnes, 'O.S' for five days in double irons for insolent language and manner, also John McMullin, '2.C.F' for five days in double irons for neglecting to carry a message. Aneroid barometer 30.21. Patent log at end of watch 50.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Weather clear and pleasant. Fresh breeze from N.E. Barometer falling slowly. Sea smooth. Set the royals and flying jib. Employed in making new mast and yard covers and repairing boat covers. Patent log at end of watch indicating 79.7 knots. Aneroid barometer 30.18.

Karl Rohrer, Lieut

4 to 6 P.M. Weather clear and pleasant. Moderate breeze from N.E. Barometer steady. Steering N.W. (pc.) Mustered at quarters at 4.45. Aneroid at end of watch 30.20. Patent log 95.

C.P. Rees Lieut

6 to 8 P.M. Cloudy and pleasant, Moderate to fresh breeze from N.E. Aneroid barometer 30.24. Patent log 10.3.

W.M. Irwin Lieut

8 P.M. to Midnight. Cloudy with frequent breaks in the clouds. Fresh breeze with occasional moderate squalls with light showers. Smooth sea. Aneroid 30.28. Patent log 43.2.

Wainwright Kellogg Lieut

Moon (mid Examined and found to be correct.
Dec. 12° 12' 34" N.
Phase, Last quarter

W. F. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Jaluit, Marshall Is to Yokohama, Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	8	0	N.W.	N.E.	5-6		30.12	81	79	76	80	bcpq	Nimbus Cir-cum	6	S	All pl. sail ex. spanker
2	8	0	"	"	5-6		30.00	80	79	76	80	"	"	5	"	
3	8	0	"	"	5-6		30.07	81	79	76	80	bcq	Cir-cum Cum	7	"	
4	8	0	"	"	5-6		30.09	80	79	76	80	"	"	7	"	
5	7	5	"	"	5-6		30.10	78	77	75	80	bc	"	7	"	
6	8	0	"	"	5-6		30.10	78	77	75	80	"	"	7	"	
7	8	2	"	"	5-6		30.12	78	78	75	80	"	"	7	"	
n 17°00' 8	8	0	"	"	5-6		30.14	78	78	75	80	"	"	7	"	
E 158°31' 9	8	2	"	"	5-6		30.16	78	78	75	80	"	"	4	"	
10	8	2	"	"	5-6		30.17	80	79	75	80	"	"	5	"	Took in royals & fly jibs
11	8	0	"	"	5-6		30.16	80	79	74	80	"	"	7	"	
Noon.	7	5	"	"	5-6		30.15	80	79	74	80	"	"	4	"	

Distance run by Log since preceding Noon 187 knots 3 tenths ~~fathoms.~~

Latitude by D. R. at Noon 17° 28' 10" N

Longitude by D. R. at Noon 158° 35' 00" E

Latitude by Observations at Noon ⊙ 17° 25' 45" N

Longitude by Chronometer from Forenoon Observations ⊙ 158° 10' 00" E

Current during the time 1,0 knots ~~fms.~~ per hour, setting to the S 84° W

1108. Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 a. m. 7° 00' 00 E

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1400 "

Coal consumed during the preceding 24 hours tons 1280 lbs.

Coal remaining on hand at Noon 110 " 600. "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	7	0	NW½N	NE	4-5		30.13	80	79	74	80	bc	Cir cum & Cum	4	S	Set royals & flying jib
2	7	2	"	"	5		30.10	80	79	74	80	"	"	4	"	
3	7	5	"	"	5		30.08	80	79	74	80	"	"	5	"	
4	7	6	"	"	5		30.08	80	79	74	80	"	"	3	"	
5	8	0	"	"	5-6		30.08	80	79	74	80	bcq	"	7	"	
6	7	5	"	"	5-6		30.10	80	79	74	80	"	"	4	"	
7	8	0	"	"	5-6		30.12	80	79	74	80	"	Cir cum Cum & stz	3	"	Took in royals & fly jib
n 18°18' 8	7	6	"	"	5-6		30.13	80	79	74	80	"	Cum stz	8	"	
E 157°25 9	7	8	"	"	5-6		30.15	79	78	73	80	bc	Nimbus Cir cum	7	"	
10	7	4	"	"	5-6		30.16	78	77	73	80	"	"	7	"	
11	7	2	"	"	5-6		30.16	78	77	73	80	"	"	7	"	
Mid.	7	0	"	"	5		30.16	78	77	72	80	"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ 158° 00' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by Az ⊙ at 4 p.m. 7° 30' 00" E

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday April 26th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather squally but not unpleasant. Barometer falling. Smooth sea. Patent log indicating at 4.00. 75.5 knots. Aneroid barometer 30.23.

Karl Rohrer Lieut

4 to 8 A.M. Weather clear and pleasant. Fresh breeze from N.E. Barometer rising. Course N.E. (pc.) Aneroid, at end of watch 30.28. Pat. log 68.

C. P. Rees Lieut

8 A.M. to Meridian. Pleasant weather. Wind strong from N.E. At 8.35 set royals and flying jib; took them in and furled them at 9.35. Aneroid barometer 30.26. Patent log 38.7.

W. M. Irwin Lieut

Meridian to 4 P.M. Fair and pleasant. Moderate to fresh N.E. winds. Falling barometer. At 1.15 set flying jib and royals. Ship on course throughout watch, N.W. ½ W. Patent log at 4 P.M. 68.7. Aneroid 30.22

Wainwright Kellogg Lieut

4 to 6. P.M. Pleasant weather. Fresh breeze from N.E. Barometer rising. Smooth sea. Patent log indicating at 6.00. 85.1 knots. Aneroid barometer 30.28.

Karl Rohrer, Lieut

6 to 8. P.M. Weather clear and pleasant. Fresh breeze from N.E. Barometer rising. Took in and furled royals and flying jib at 6.50. Aneroid at end of watch 30.30. Patent log 101.1

C. P. Rees Lieut

8 P.M. to Midnight. Clear and pleasant, bright starlight. Moderate breeze from N.E. Aneroid barometer 30.30. Patent log. 30.2.

W. M. Irwin Lieut

Moon 1. mid.
Dec. 15° 29' 57 N.
Phase. Last quarter.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Jaluit, Marshall I's to Yokohama Japan.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
					Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
	A. M.																
	1	6	4	N.W.b.W	NE	5		30.16	78	77	72	80	bc	Cir-Cum & Cum	6	S	Pl. sail to topgalls except
	2	7	0	"	"	5		30.13	78	77	72	80	"	"	6	"	spanker
	3	7	0	"	"	5		30.13	78	77	72	80	"	"	7	"	Set royals and fly jib
	4	7	0	"	"	5		30.13	78	77	72	80	"	"	7	"	
	5	7	0	"	"	5		30.13	78	77	72	80	"	Cir & Cir-Cum	7	"	
	6	6	5	"	NE x E.	5		30.14	78	77	72	80	"	"	8	"	
n	7	7	0	"	ENE	5		30.14	78	77	73	80	"	Cir Cum Cum & strat	7	"	Set stbd f. topst stunsail
19°20'	8	7	0	"	"	5		30.16	78	77	73	80	"	Cum & strat	8	"	
E	9	6	8	"	"	4		30.16	79	79	73	80	"	"	8	"	
156°20	10	6	8	"	"	4		30.16	79	79	74	80	"	Cir-Cum & strat	8	"	
	11	6	5	"	"	4		30.16	79	79	74	80	"	"	8	"	
	Noon.	6	8	"	"	4		30.15	79	79	74	80	"	"	8	"	

Distance run by Log since preceding Noon 171 knots 6 tenths ~~fathoms.~~

Latitude by D. R. at Noon 19°53'00" N

Longitude by D. R. at Noon 156°20'00" E

Latitude by Observations at Noon⊙ 19°44'00" N

Longitude by Chronometer from Forenoon Observations⊙ 156°04'00" E

1108. Current during the time 0.75 knots ~~fms.~~ per hour, setting to the S 58° W

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at 6°00' E"

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1050 "

Coal consumed during the preceding 24 hours tons 4.00 lbs.

Coal remaining on hand at Noon 110 " 200 "

	Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
	P. M.																
	1	7	0	NW½W	NE x E	5		30.15	80	80	74	80	bc	Cir & Cir cum	8	S	Set stbd topgt stunsails
	2	7	0	"	"	5		30.14	80	79	74	80	bcp	Cir cum Cir & cum	3	"	
n 20°	3	7	0	"	"	5		3.13	79	78	74	80	"	"	5	"	
E 155-50	4	7	2	"	"	5		30.12	79	78	74	80	bc	Cum & Cir cum	4	"	
	5	8	0	"	"	5-6		30.10	78	78	74	80	bcq	"	4	"	Took in stbd topgt stunsls
1082	6	8	2	"	ENE.	5-6		30.10	78	78	74	80	"	"	4	"	
	7	8	0	"	"	5-6		30.10	78	78	74	80	"	Cir cum Cum & strat	7	"	
n 20°34	8	8	0	"	"	5-6		30.10	78	78	74	80	"	Cir cum & cum	7	"	
E 155°21	9	7	0	"	"	5		30.14	78	76	73	80	bc	"	7	"	
	10	7	0	"	"	5		30.16	78	77	73	80	"	"	7	"	
	11	7	0	"	"	5		30.16	78	77	73	80	"	"	7	"	
n 20 52	Mid.	7	0	"	"	5		30.16	78	77	73	80	"	"	7	"	

E 155°

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday April 27th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moderate breeze from N.E. Smooth sea. At 1. set royals and flying jib. Aneroid 30.21. Pat. log 57.3.

Wainwright Kellogg Lieut

4 to 8 A.M. Clear and pleasant weather. Fresh breeze from N.E. to E.N.E. Barometer rising. Smooth sea. Wind hauling aft, braced in two points, and set starboard fore topmast stunsail. Patent log indicating at 8°°. 85.3 knots. Aneroid barometer 30.30.

Karl Rohrer, Lieut

8 A.M. to Meridian. Weather clear and pleasant. Moderate breeze from E.N.E. Barometer steady. The Commanding Officer inspected the ship and crew at quarters at 9.15. Aneroid at end of watch 30.26. Patent log 114.

Lieut

Meridian to 4 P.M. Fair and pleasant. Light fall of rain first part of watch. Fresh winds from N.E. by E. Falling barometer. At 1.30 set starboard top-gallant stunsails. Aneroid at end of watch 30.22. Pat. log at 4°°. 42.1.

Lieut

4 to 6. P.M. Clear and pleasant. Fresh breeze from E.N.E. Moderate sea. At 4.30 took in topgallant stunsails. Aneroid 30.26. Pat. log 58.3.

Wainwright Kellogg Lieut

6 to 8. P.M. Weather clear and pleasant. Fresh breeze from E.N.E. Moderate sea, ship riding it easily. Barometer steady. Aneroid barometer 30.28. Patent log at end of watch 74 knots.

Karl Rohrer Lieut

8 P.M. to Midnight. Weather clear and pleasant. Moderate breeze from E.N.E. Barometer rising. Aneroid at end of watch 30.29. Patent log 3.1.

Lieut

Moon's mid

Dec 17° 42' 48.76

Phase, New moon.

Examined and found to be correct.

W. H. Parker

Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Jaluit, Marshall I's to Yokohama, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	7	4	N W ½ N.	N E × E	5		30.14	78	77	73	80	bc	Cir and Cir cum	7	M	Plain sail to royals
2	7	0	"	"	5		30.12	78	77	73	80	"	"	7	"	except spanker
3	6	6	"	"	4		30.10	78	77	73	80	"	"	6	"	
4	6	4	"	"	4		30.10	78	77	73	80	"	"	6	"	
5	6	0	"	"	4		30.12	78	77	73	80	"	"	7	"	
6	6	0	"	E N E.	4		30.14	78	77	73	80	"	Cum & Cir cum	6	"	Set stbd topgallt stunsl
7	6	0	"	"	4		30.14	78	77	73	80	"	"	6	"	
n 21° 39' 8	5	8	"	"	4		30.15	78	77	73	80	"	"	7	"	
E 154° 12' 9	5	5	"	"	4-5		30.18	78	78	74	80	"	"	7	"	
10	5	5	"	"	4-5		30.18	78	79	75	80	"	"	7	"	
11	5	0	"	"	4		30.18	78	79	75	80	"	"	5	"	Furled mainsail
Noon.	4	5	"	"	3-4		30.16	78	79	75	80	"	"	5	"	

Distance run by Log since preceding Noon 160 knots 1 ~~fathoms.~~ tenths

Latitude by D. R. at Noon 21° 58' 00" N

Longitude by D. R. at Noon 154° 21' 00" E

Latitude by Observations at Noon ⊙ 21° 57' 00" N

Longitude by Chronometer from Forenoon Observations ⊙ 153° 59' 00" E

Current during the time 0.8 knots ——— fms. per hour, setting to the N 41° W

1081 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 700 "

Coal consumed during the preceding 24 hours tons 1280 lbs.

Coal remaining on hand at Noon 109 " 1160 "

P. M.	3	2	N W ½ N.													
1	1	6	N W ¼ W	E N E	3		30.16	79	80	75	80	bc	Cir cum	6	S	
2	5	0	"	"	4		30.16	79	80	75	80	"	"	6	"	
3	5	0	"	"	4		30.16	79	80	75	80	"	"	5	"	
4	5	2	"	"	4		30.15	79	79	74	80	"	"	6	"	
5	5	0	"	"	4		30.15	78	79	74	79	"	"	5	"	
6	5	4	"	"	4		30.16	77	78	74	79	"	"	7	"	
7	5	2	"	"	4		30.17	77	78	74	79	"	Cir. Cirro Cum & [illegible]	5	"	
n 22° 08' 8	5	8	"	"	4		30.17	77	78	74	79	"	Cir & Cir cum	7	"	
E 153° 27' 9	6	0	"	E × N	4		30.18	78	78	75	79	"	Cir & Cum	8	"	
10	6	0	"	E.	4		30.19	78	78	75	79	"	"	7	"	
11	6	0	"	"	4		30.19	78	78	76	79	"	Cir.	9	"	
Mid.	5	0	"	"	4		30.19	78	78	75	79	bcl.	Cir & Cum	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Monday April 28th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4. A. M. Pleasant weather. Moderate breeze from N by E. Aneroid barometer 30.24. Patent-log at end of watch 29.5.

W. M. Irwin WMI Lieut

4 to 8. A. M. Clear and pleasant. Moderate breeze from E. N. E. Smooth sea. At 5. set topgallant stunsails. Patent log 58.3. Aneroid 30. 31.

Wainwright Kellogg WK Lieut

8. A. M. to Meridian. Weather clear and pleasant. Moderate to fresh breeze from E. N. E. Barometer steady. Furled mainsail, and started fires for distilling at 10.35. Employed in painting hammock cloths, grab and man ropes. Patent log at end of watch 75.0 knots. Aneroid barometer 30.28.

Karl Rohrer KR Lieut

Meridian to 4 P. M. Weather clear, and pleasant. Gentle breeze from E. N. E. Barometer steady. At 12.40 changed course to N W ¼ W. Commenced distilling at 1.50. Aneroid, at end of watch 30.24. Pat. log 95.6.

[illegible] Lieut

4 to 6 P. M. Clear, and pleasant. Gentle breeze from E N E. Mustered at quarters at 4. 45. Aneroid barometer at the close. 30.27.

W. M. Irwin WMI Lieut.

6 to 8. P. M. Clear and pleasant. Light to moderate breeze from E N E. Smooth sea. Distilling. Aneroid 30. 28. Patent log 17.3.

Wainwright Kellogg WK Lieut

8 P. M to Midnight. Weather clear and pleasant. Moderate breeze from E by N. to East. Barometer steady. Braced in, and set starboard lower stun sail. Vivid lightning to the E'd. Sea, smooth. Patent log indicating at 12 o. 40 knots. Distilling water. Aneroid barometer 30. 29.

Karl Rohrer, Lieut

Moon, mid Examined and found to be correct.
Dec, 18° 40' 16" N
Phase, New moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"* " *3d* Rate, *6* Guns,

Making passage from Jaluit. Marshall Is to Yokohama. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	5	7	NW ¼ W.	E.	4		30.17	77	78	74	79	bcl	Ci cum & nimb	6	S	Square sail to royals except main sail, with jib. fly jib & Stbd studsails
2	5	0	"	ESE.	4		30.15	77	78	74	79	"	"	6	"	
3	4	4	"	"	3		30.15	77	78	74	79	bclp	"	5	"	
4	3	2	"	"	3		30.15	77	77	73	79	"	"	5	"	
5	3	6	"	SE.	3		30.15	77	77	73	79	bc	"	6	"	
6	3	6	"	"	3		30.16	77	77	73	79	"	Ci s Ci cum	7	"	
7	3	8	"	"	3		30.17	77	77	74	79	"	"	6	"	
n 23°00 8	4	2	"	E.	3		30.19	77	77	74	79	"	"	4	"	
E 152°40' 9	5	0	"	E & S.	3		30.19	76	76	73	79	bcp.	Ci cum & cum	4	"	
10	4	6	"	"	3		30.20	77	76	73	79	bc	"	6	"	
11	5	0	"	"	3-4		30.20	78	76	73	79	"	"	7	"	
Noon.	5	0	"	"	3-4		30.18	78	76	73	79	"	"	8	"	Set lee clew of main sail

Distance run by Log since preceding Noon	117 knots 5 ~~fathoms.~~ tenths
Latitude by D. R. at Noon	23° 15' 00" n
Longitude by D. R. at Noon	152° 28' 00" E
Latitude by Observations at Noon ⊙	23° 23' 00" n
Longitude by Chronometer from Forenoon Observations ⊙	152° 24' 00" E
Current during the time 0.33 knots ~~fms.~~ per hour, setting to the	S. 23° W
1081. Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "
Variation of the Compass by Azimuth ⊙ observed at	3° 30' 00" E
Water expended during the preceding 24 hours	300 gallons.
Water distilled during the preceding 24 hours	2600 "
Water remaining on hand fit for use at Noon	3000 "
Coal consumed during the preceding 24 hours	2 tons 1860 lbs.
Coal remaining on hand at Noon	106 " 1540 "

P. M.															
1	4	5	NW ¼ W	East.	3		30.18	78	80	76	79	bc	Ci cum & cum	7	S
2	4	8	"	E by S	3-4		30.18	80	82	76	79	"	"	4	"
3	5	4	"	"	4		30.18	81	82	76	79	"	"	3	"
4	5	5	"	"	4		30.18	81	82	76	79	"	"	5	"
5	4	6	"	SE & E.	3		30.16	78	79	74	79	"	Ci s + cum	6	"
6	4	6	"	"	3		30.16	78	79	74	79	"	"	6	"
7.	4	8	"	"	3		30.16	78	78	74	79	"	Ci cum & strat	6	"
23°43' n 8	4	6	"	"	3		30.16	78	78	74	79	"	"	6	"
E 151°52' 9	4	6	"	ESE	3		30.17	78	78	74	79	"	Ci s & cum	7	"
10	4	6	"	"	3		30.18	78	78	73	79	"	"	7	"
11	4	4	"	"	3		30.19	77	77	73	79	"	"	7	"
Mid.	4	2	"	"	3		30.19	77	77	72	79	"	"	7	"

Longitude by Chronometer from Afternoon Observations ⊙	° ' "
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Tuesday April 29th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather partly cloudy with passing showers of rain. Barometer steady. Gentle breeze from E.S.E. Distilling. Aneroid, at end of watch 30.24. Patent-log 57.6.

Lieut

4 to 8 A.M. Pleasant weather. Gentle breeze from S.E. hauling to East. Smooth sea. Barometer rising. Aneroid barometer 30.31. Patent-log 73 knots

W. M. Irwin Lieut

8 A.M. to Meridian. Fair and pleasant. Light fall of rain first hour of watch. Light to moderate E by S winds. At 8 took in lower stun sail, set it again at 8.55. Stopped distilling and hauled fires at 10.45. Set lee clew of mainsail at 11.25. Aneroid at end of watch 30.28. Patent-log 93.5. Beat to quarters at 9.15 and had divisional instruction.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Weather clear and pleasant. Gentle to moderate breeze from E to E by S. Barometer steady. Filled and fuzed fourteen IX in shells. Employed in squaring rattlines. Patent log at end of watch 14 knots. Aneroid barometer 30.25

Karl Rohrer Lieut

4 to 6. P.M. Weather clear and pleasant. Gentle breeze from S E by E. Barometer steady. Mustered at quarters at 4.45. Aneroid at end of watch 30.25. Patent-log 24.3.

Lieut

6 to 8. P.M. Pleasant weather. Gentle breeze from S E by E. Smooth sea. Aneroid barometer 30.29. Patent-log 33.5.

W. M. Irwin
WMI Lieut

8 P.M to Midnight. Clear and pleasant. Light breeze from E S E. Smooth sea. At 8.04 beat to General Quarters and fired port battery. All ready in 4m 40sec. Commanding Officer inspected ship. Secured at 8.20 Moon rose at 10.15. Aneroid 30.30. Patent-log 51.5 miles.

Wainwright Kellogg WK Lieut

Moon l mid

Dec 18° 20' 46" N.

Phase. New moon

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Jaluit, Marshall Is to Yokohama, Japan.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
					Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
	A. M.																
	1	4	5	NW¼W.	ESE	3		30.18	78	78	73	79	bc	Cir	9	S	Sq sail, except weather
	2	4	5	"	"	3		30.17	78	78	73	79	b	—	10	"	clew of mainsail, jib
	3	4	0	"	"	3		30.16	78	78	73	79	"	—	10	"	and stbd stunsails
	4	4	0	"	"	3		30.15	78	78	73	79	bc	Cir	8	"	
	5	3	6	"	"	3		30.16	76	77	72	78	"	Cir & Cumu	6	"	
	6	3	6	"	"	3		30.18	77	77	73	78	"	"	6	"	
n	7	4	5	"	"	3		30.18	78	77	73	78	"	"	6	"	
24° 23'	8	4	0	"	"	3		30.20	78	78	73	78	"	"	7	"	
E 151° 14'	9	3	4	"	"	2-3		30.20	79	78	73	78	"	"	8	"	
	10	3	4	"	"	1-2		30.20	79	80	74	78	"	"	7	"	
	11	2	2	"	"	1-2		30.20	79	80	74	78	"	"	5	"	
	Noon.	2	2	"	"	1-2		30.22	79	81	74	78	"	"	5	"	Hauled up lee clew of mainsail

Distance run by Log since preceding Noon *100* knots *5* ~~fathoms.~~ *tenths*

Latitude by D. R. at Noon *24° 26' 00" N*

Longitude by D. R. at Noon *151° 05' 00" E*

Latitude by Observations at Noon ⊙ *24° 31' 00" N*

Longitude by Chronometer from Forenoon Observations ⊙ *151° 05' 00" E*

Current during the time knots fms. per hour, setting to the —

1081. Variation of the Compass by Amplitude ⊙ observed at Sunrise ° — ' "

Variation of the Compass by Azimuth ⊙ observed at *3° 00' 00" E*

Water expended during the preceding 24 hours *350* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2650* "

Coal consumed during the preceding 24 hours tons *1700* lbs.

Coal remaining on hand at Noon *105* " *2060* "

	Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.	0	5	NW½W													
	1	1	0	NW.	ESE.	1-2		30.20	80	82	75	78	bc	Cir Cumu & Cumu	6	S	
	2	2	5	"	"	1-2		30.18	81	82	75	78	"	"	4	"	Took in f. jib and jib
	3	2	5	"	"	2		30.17	81	82	75	78	"	"	4	"	Took in stbd and set
	4	2	6	"	SSE.	2		30.18	82	82	75	78	"	"	3	"	port topgalt stunsails
	5	1	5	"	S.	1-2		30.18	79	80	74	78	"	Cumu strs & Cir	5	"	Set port lower and
	6	1	5	"	"	1-2		30.18	79	79	74	78	"	"	5	"	fore topst stunsails
n	7	1	6	"	"	2		30.18	79	79	74	78	"	"	4	"	Took in stunsails and
24° 28 E	8	2	0	"	"	2		30.18	77	78	73	78	"	Cir & Cumu	6	"	mainsail
151 00	9		6	"	"	1		30.18	77	78	73	78	"	Cir	9	"	Furled all sail
	10	3	0	"	S by W.	1		30.18	80	79	75	78	"	"	8	"	
	11	6	6	"	"	1		30.18	80	79	75	76	"	"	8	"	
	Mid.	7	2	"	"	1		30.18	79	78	75	76	"	Cir Cumu & Cumu	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Wednesday April 30th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant weather. Gentle breeze from E.S.E. Barometer falling. Patent log at end of watch 68.1 knots. Aneroid barometer 30.28.

Karl Rohrer Lieut

4 to 8 A.M. Weather clear and pleasant. Gentle breeze from E.S.E. Barometer steady. Aneroid at end of watch 30.30. Patent log 82.4.

Lieut.

8 A.M. to Meridian. Clear and pleasant. Light E.S.E. winds. Barometer rising slowly. At 9.15 went to general quarters, secured at 9.30. Aneroid at end of watch 30.28. Patent log 92.7. Hauled up lee clew of mainsail at 11°.

W.M. Irwin Lieut

Meridian to 4 P.M. Cloudy and warm. Light airs to light breeze from E.S.E hauling to S.S.E last hour. At 3.50 took in all starboard stunsails and set port topgallant stunsails. Patent log 102.2. Aneroid barometer 30.25. At 12.25 by order of Commanding Officer changed course to N.W. At 1.35 hauled down jib and flying jib.

Wainwright Kellogg
WK
Lieut

4 to 6 P.M. Clear and pleasant weather. Light breeze from South. Barometer steady. Aneroid at end of watch 30.28. Patent log 5.4.

Karl Rohrer, Lieut

6 to 8 P.M. Weather clear and pleasant. Light airs from So. Barometer steady. At 6.30 unbent mainsail, started fires, and made preparations for steaming. At 7.35 took in all port stunsails. Aneroid at end of watch 30.27.

Lieut

8 P.M to Midnight. Pleasant weather, clouding over last hour. Light airs from S by W. At 8.08 rang the fire bell and exercised at fire quarters. Took in and furled sail, and put covers on. At 9.30 commenced steaming under four boilers. Put over patent log reading 5.8. Steam 44 lbs. Revolutions 36.2. Aneroid barometer 30.30. Patent log 22.5.

W.M. Irwin
Lieut

Moon's mid. Examined and found to be correct.
Dec. 16° 51' 24" N.
Phase, New moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Jaluit. Marshall Is. to Yokohama. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1081 1	7	4	NW.	NW	0-1		30.18	77	77	74	76	bc	Nimb Cir Cum	5	S	
2	7	4	"	"	0-1		30.17	76	76	74	76	"	"	5	"	
3	7	4	"	N.	5-6		30.17	76	76	74	76	bcqp	"	2	"	Set jib & topt stay &
n 25° 4	7	6	"	"	5-6		30.17	75	71	69	76	bcq	Cum & nimb	1	"	and main trysail.
E 180 5	6	5	"	NNE.	5-6		30.17	73	71	69	76	"	Cir Cum & Cum Nimb	2	M	
6	6	0	NW ½ W.	"	5-6		30.19	72	71	69	76	"	"	2	"	Set fore and main topsail
7	6	5	NW x W ½ W	N x E.	5-6		30.21	72	71	69	76	"	"	4	"	and foresail
n 25°34 8	6	0	NW x W.	NNE.	5-6		30.23	72	71	69	76	"	"	4	"	Set topgallt sails
E 149°43 9	6	4	"	"	5-6	½	30.25	73	72	68	76	"	Cir Cum	8	"	
10	7	5	"	"	5-6	½	30.27	73	72	67	76	"	"	5	"	
11	7	6	"	"	5-6	½	30.30	73	72	67	76	"	"	3	"	
Noon.	8	0	NW ¾ W	"	5-6	½	30.32	75	72	67	75	"	"	3	"	

Distance run by Log since preceding Noon 117 knots 4 ~~fathoms~~ tenths

Latitude by D. R. at Noon 25° 47' 00" N

Longitude by D. R. at Noon 149° 24' 00" E

Latitude by Observations at Noon ⊙ 25° 49' 00" N

Longitude by Chronometer from Forenoon Observations ⊙ 149° 15' "

1082 Current during the time 0.3 knots — fms. per hour, setting to the N 76° W

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at 2° 00' 00" E

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2300 "

Coal consumed during the preceding 24 hours 6 tons 820 lbs.

Coal remaining on hand at Noon 99 " 1240 "

P. M.															
1	7	2	NW ¾ W	NNE.	5-6	½	30.29	71	70	65	73	bc	Cir Cum	3	M
2	7	6	NW x W	"	5-6	½	30.26	71	69	65	73	"	"	4	"
3	7	4	NW ¾ W.	"	5-6	½	30.26	70	69	65	73	"	"	2	"
4	7	0	NW ½ W.	"	5-6	½	30.28	70	68	64	72	"	"	2	"
5	7	4	NW ¾ W.	"	5-6		30.30	69	68	63	72	"	Cir Cum & Cum	3	"
6	7	0	NW.	"	5-6		30.30	69	68	63	72	"	"	1	"
7	7	5	NW ½ N.	NE.	5-6		30.28	69	68	63	73	"	Cum Cir Cum & Strat	2	"
n 26°24' 8	7	0	"	"	5-6		30.29	69	68	63	73	bcq	"	1	"
E 148°25' 9	7	6	"	"	5-6		30.29	70	67	62	72	"	Nimb Cir & Cum	3	"
10	8	0	"	"	5-6		30.29	68	67	62	72	"	"	3	"
11	8	4	"	"	5-6		30.29	68	67	61	72	"	"	2	"
Mid.	8	4	"	"	5-6		30.29	68	67	61	72	"	"	2	"

Longitude by Chronometer from Afternoon Observations ⊙ 149° 12' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Thursday, May 1st, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant until 3.15 when the wind hauled to North and freshened to strong breeze with rain, remainder of watch light breeze from N.W. Smooth sea. At 3.30 set fore topmast staysail, jib and maintrysail. Steaming under four boilers. 42 or 47 lbs. steam Aneroid 30.30. Patent log 51.6.

Wainwright Kellogg OK Lieut

4 to 8 A.M. Weather pleasant. Breeze stiff in squalls from N to N.N.E. Barometer rising. Banked fires and made sail to topgallantsails, at 5. Moderate sea running which ship rides easily. Patent log at 8. indicating 76 knots. Aneroid barometer 30.36.

Karl Rohrer Lieut

8 A.M. to Meridian. Weather clear and pleasant. Fresh breeze from N.N.E. Exercised at general quarters at 9.15. Fires banked. Steering full and by. Aneroid at end of watch 30.43. Patent log 7.0.

C. Rees Lieut

Meridian to 4 P.M. Cloudy and cool. Fresh breeze from N.N.E. Moderate sea. Barometer steady latter part. Fires banked. At 12.30 changed course to N.W.½N. Aneroid barometer 30.45. Patent log 35.5.

W. M. Irwin Lieut

4 to 6 P.M. Cloudy. Pleasant Fresh breeze from N.N.E. Moderate sea. At 4.45 mustered at quarters. Aneroid 30.47. Banked fires under four boilers. Patent log 50.9.

Wainwright Kellogg OK Lieut

6 to 8 P.M. Pleasant weather. Breeze fresh from N.E. Barometer falling Moderate sea, which ship rides easily. Fires banked under four boilers. Patent log at 8 oc 65. Aneroid barometer 30.48.

Karl Rohrer Lieut

8 P.M. to Midnight. Weather cloudy and squally. Fresh breeze from N.E. Barometer steady. Steering N.W.½N. p.c. Aneroid at end of watch 30.52. Pat. log 94.5.

C. Rees Lieut

Moon l. mid
Dec. 14° 20′ 09″ N.
Phase, 1st Quarter

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Jaluit. Marshall Is to Yokohama. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	7	6	NW½N	NE.	5-6		30.30	67	66	61	72	bcq	Cir & Cir cum	4	M	All plain sail to top
2	7	4	"	"	5-6		30.30	67	66	60	72	"	"	6	"	galts except mainsail
3	7	2	"	"	5-6		30.30	67	65	59	72	"	"	7	"	and spanker
4	7	2	"	"	5		30.30	67	65	59	72	bc	"	7	"	
5	7	4	"	"	5		30.32	67	65	59	72	"	"	6	S	
6	7	4	"	NE×E.	5		30.34	68	64	58	72	"	"	7	"	Set royals & fly jibs
7	7	0	"	"	4		30.36	67	65	58	72	"	"	7	"	
8	6	4	"	"	4		30.38	67	65	58	71	"	"	7	"	Set stbd stun'ls except lower
9	6	0	"	"	4		30.38	66	65	58	71	"	Cir-Cir cum strat	3	"	Took in topgal't stunsails
10	6	5	"	"	4		30.38	66	66	59	71	"	"	4	"	
11	6	0	NW¾W.	"	4		30.38	67	66	59	71	"	"	2	"	
Noon.	7	0	"	"	4		30.38	67	66	59	71	"	"	3	"	

n 27°25'
E 146°52'

Distance run by Log since preceding Noon 173 knots 6 tenths ~~fathoms.~~

Latitude by D. R. at Noon 27° 54' 00"

Longitude by D. R. at Noon 147° 00' 00"

Latitude by Observations at Noon ⊙ 27° 45' 00"

Longitude by Chronometer from Forenoon Observations ⊙ 146° 34' 00"

Current during the time 1.2 knots ~~fms.~~ per hour, setting to the S 69° W

1 Wb. Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at 1° E ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2000 "

Coal consumed during the preceding 24 hours 1 tons 1680 lbs.

Coal remaining on hand at Noon 97 " 1800 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	6	8	NW¾N.	NE×E.	4		30.38	67	66	59	70	bc	Cir & Cum	7	S	Set stbd stunsails ex. lower
2	6	0		ENE.	4		30.37	67	66	58	70	"	"	7	"	
3	4	6	"	E	3		30.36	67	67	59	69	"	"	5	"	Took in stunsails
4	4	6	"	"	4		30.35	68	67	60	69	"	"	5	"	Furled all square sail
5	7	2	"	ENE.	2		30.36	70	68	63	69	"	Cir Cum Cum Str	5	"	and set spanker
6	7	0	"	"	2		30.36	70	68	63	69	"	"	2	"	
7	7	6	"	"	4		30.35	69	67	63	69	"	"	6	"	Set all square sail to
8	9	0	"	"	4		30.32	69	67	63	69	"	Cir	9	"	topgalts except mainsail
9	9	5	"	ESE.	4		30.32	69	66	64	69	"	"	9	"	
10	9	5	"	SE×E.	4		30.32	69	66	65	69	"	"	9	"	
11	9	0	"	SE.	3-4		30.32	69	68	67	69	"	Cum & Cir Cum	4	"	Took in main trysail
Mid.	9	0	"	SE×S.	3		30.32	69	68	67	69	"	"	5	"	set royals

n 28°29'
E 145°49

Longitude by Chronometer from Afternoon Observations ⊙ 146° 30' 00" E

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Friday, May 2d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A.M. Pleasant weather. Fresh breeze from N.E. Moderate sea. Fires banked, Aneroid barometer 30.52. Patent log 23.

W.M. Irwin Lieut

4 to 8 A.M. Clear and pleasant. Moderate breeze from N.E. by E. Smooth sea. At 5 set royals and at 7.30 set starboard fore topgallant, and fore topmast stunsails. Aneroid 30.56. Banked fires under four boilers. Patent log

Wainwright Kellogg WMI Lieut.

8 A.M. to Meridian. Clear and pleasant weather. Moderate breeze from N.E. by E. Barometer steady. At 9.15 exercised at general quarters. At 10 changed course to N.W. ¾ N. by order of Captain. Fires banked under four boilers. Aneroid barometer 30.54. Patent log 77.9.

Harl Holmes, Lieut

Meridian to 4 P.M. Weather clear and pleasant. Gentle breeze from Nd and Ed, Barometer falling. Set starboard lower, and topgallant stunsails at 12.20. At 3.00 took in all stunsails, furled all square sails and started ahead under steam, Set spanker at 3.15. Started fires under two after port boilers at 3.20. Aneroid at end of watch 30.49. Patent log 30.48.

C. Pike Lieut

4 to 6 P.M. Pleasant weather. Gentle breeze from E.N.E. Smooth sea. Mustered at quarters at 4.45. Steam 40.5 lbs. Revolutions 40.6. Aneroid barometer 30.48. Patent log 17.

W.M. Irwin WMI Lieut

6 to 8 P.M. Clear and pleasant, Moderate breeze from E.N.E. Smooth sea, At 6.50 called all hands and made all plain sail to topgallant-sails except mainsail. Steaming under six boilers, Steam 53 lbs. Revolutions 47. Aneroid 30.46. Patent log 33.5

Wainwright Kellogg WMI Lieut

8 P.M. to Midnight. Weather clear and pleasant. Gentle to moderate breeze from E.S.E. to S.E. by S. Barometer steady. Under steam and sail. Steam pressure 57 lbs, and making 48 revolutions. Patent log at end of watch 70.4. Aneroid barometer 30.50.

Harl Holmes, Lieut

Moon, Upper mer. Examined and found to be correct.
Dec. 11° 10' 02" N.
Phase, 1st Quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Jaluit. Marshall Is. to Yokohama. Japan.

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	1	9	0	NW¾N	South	3-4		30.29	70	68	64	69	bc	Cum & cir cum	8	S	All eq. sail except
	2	9	0	"	S.S.W.	3-4		30.28	70	68	62	69	"	"	8	"	mainsail, and jib
n 29·21	3	10	0	"	SW×S.	4-5		30.27	70	68	62	69	"	"	6	"	
E 145	4	9	6	"	S.W.	4		30.26	70	68	62	69	"	"	6	"	Set fly jib. f. topt stays'l
	5	9	0	"	"	4		30.26	68	67	61	69	"	Cir cum cum str	1	"	and main trysail
1055	6	9	5	"	"	4		30.28	67	66	60	69	"	"	7	"	
	7	9	0	"	"	4		30.28	67	66	60	69	"	"	5	"	
n 29°57	8	9	2	"	SW×W.	4		30.28	67	66	61	69	"	"	7	"	
E 144°30	9	9	8	"	SSW	4		30.28	67	66	60	69	"	Cir cum	7	"	
n 30 E 144·28	10	9	6	"	"	4		30.27	67	66	61	69	"	"	8	"	
	11	10	0	"	"	4		30.26	68	66	61	69	"	"	6	"	
	Noon.	10	6	"	"	4		30.24	68	67	62	69	"	"	6	"	

Distance run by Log since preceding Noon	204 knots 1 ~~fathoms.~~ tenths
Latitude by D. R. at Noon	30° 32' 00" N
Longitude by D. R. at Noon	144° 06' 00" E
Latitude by Observations at Noon ⊙	30° 29' 00" N
Longitude by Chronometer from Forenoon Observations ⊙	144° 02' 00" E
Current during the time knots fms. per hour, setting to the	—
Variation of the Compass by Amplitude ⊙ observed at Sunrise	—' "
1055 Variation of the Compass by Azimuth ⊙ observed at	0° — —
Water expended during the preceding 24 hours	350 gallons.
Water during the preceding 24 hours	"
Water remaining on hand fit for use at Noon	1650 "
Coal consumed during the preceding 24 hours	17 tons 2160 lbs.
Coal remaining on hand at Noon	79 " 1900 "

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	P. M.																
	1	9	5	NW¾N	S.W	5		30.24	69	67	63	69	bc	cir & str	7	S	Set spanker
	2	9	5	"	"	5		30.22	70	67	64	68	"	cir.	8	"	
	3	9	5	"	S.W×W	5		30.20	70	68	64	68	"	"	8	"	
	4	10	0	"	"	5		30.18	70	68	64	68	"	cir & strat	6	"	
	5	9	6	"	"	4		30.17	70	68	65	68	"	cir cu & cum	5	"	
	6	9	4	"	"	4		30.15	70	68	65	67	"	cir cum & strat	5	"	
n	7	9	6	"	S.W.	4		30.13	70	68	65	67	"	"	5	"	
31°29 E	8	9	4	"	"	4		30.13	70	68	65	67	"	"	8	"	
143°02	9	9	4	NW	"	4		30.13	70	66	64	67	"	cir & cir cum	7	"	
	10	9	0	"	"	4		30.13	70	66	64	67	"	"	7	"	
	11	9	6	"	"	4		30.11	68	66	64	67	"	"	5	"	
	Mid.	9	4	"	"	4		30.11	68	66	64	67	"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙	143° 59' 00" E
Longitude by Chronometer from Observations *	° ' "
Variation of the Compass by Amplitude observed at sunset	° ' "
Variation of the Compass by at	° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday, May 3d., 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy and pleasant, Gentle to moderate breeze from Sd. hauling to Wd. Barometer falling. At 3.15 set flying jib, fore topt-staysail and main topsail. Aneroid at end of watch 30.42. Patent log 107.6. Steam 60. Revs 50.

Lieut.

4 to 8. A.M. Pleasant weather. Moderate breeze from N.W. hauling to S.W. by W. Smooth sea. Steam 60 lbs. Revolutions 51.4. Aneroid barometer 30.44. Patent log 46.

W. M. Irwin Lieut

8 A.M. to Meridian. Clear and pleasant. Moderate breeze from S.S.W. Smooth sea. Steaming under six boilers. Average steam 59 lbs. Revs 52. Aneroid 30.41. Patent log at end of watch 84 miles. Unbent all stunsails and unrove gear.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Weather clear and pleasant. Fresh breeze from S.W. to S.W. by W. Under sail and steam. Barometer falling. Steam 60 lbs. Revs 51. Aneroid barometer 30.35. Patent log at end of watch 25.2

Karl Rohrer Lieut

4 to 6. P.M. Weather clear and pleasant. Gentle breeze from S.W. by W. Barometer falling. Mustered at quarters at 4.45. Aneroid at end of watch 30.33. Patent log 43.9. Steam 56. Revolutions 50.

Lieut

6 to 8. P.M. Clear and pleasant. Bright moonlight. Moderate breeze from S.W. Smooth sea. At 8oo changed course to N.W. patent log reading 62.9. Steam 57.5 lbs. Revolutions 56.4. Aneroid barometer 30.36.

W. M. Irwin Lieut

8 P.M. to Midnight. Hazy. Pleasant. Moderate breeze from Sd. Moderate sea. Bright moonlight. Average revolutions 49. Steam 56 lbs. Aneroid 30.33. Patent log 102.7. At 8. changed course to N.W.

Wainwright Kellogg Lieut

Moon's mid.
Dec. 7° 31.' 50" N.
Phase, 1st Quarter.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Jaluit, Marshall Is. to Yokohama, Japan

n 32°47 E 141°21

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	9	5	N.W.	S.W.	5		30.10	67	66	65	67	bc	Cir. Cir Cum & Stratus	4	M	Took in royals & f. jib
2	9	5	"	"	5		30.08	67	66	65	67	"	"	8	"	
3	9	5	"	"	5		30.06	67	67	65	67	oc	Cir Cum & Cum	0	"	
4	9	5	"	"	5		30.06	67	67	66	67	"	"	0	S	
5	9	6	"	"	5		30.05	67	67	65	67	"	"	0	"	Took in spanker
6	9	4	"	"	5-6		30.05	67	67	65	67	ocus	Cir Cum & cumuli	0	"	
7	10	0	"	"	5-7		30.03	67	67	65	69	"	"	0	M	
8	10	0	"	"	5-7		30.02	69	69	67	70	"	"	0	"	Took in topgalls
9	9	2	"	"	5-6		30.00	70	70	69	70	"	Cum & nimb	0	"	
10	7	7	"	"	5-6		30.00	70	70	69	70	ocd	"	0	"	
11	6	4	"	"	5-6		30.00	72	71	70	69	oc	"	0	"	
Noon.	3	0	"	N.W.	2		30.00	70	69	68	69	ocgt	"	0	"	Took in all sail

Distance run by Log since preceding Noon 217 knots 2 tenths ~~fathoms.~~

Latitude by D. R. at Noon 33 ° 04 ' 00 " N

Longitude by D. R. at Noon 140 ° 59 ' 00 " E

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ 141 ° 19 ' 14 " E

Current during the time knots fms. per hour, setting to the —

1035 Variation of the Compass by Amplitude ⊙ observed at Sunrise ° — ' "

Variation of the Compass by Azimuth ⊙ observed at 3 ° 15 ' W

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1300 "

Coal consumed during the preceding 24 hours 18 tons 1110 lbs.

Coal remaining on hand at Noon 61 " 790 "

n 33°44 E 140°32

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	5	0	N.W.	N.N.E.	3		30.00	71	67	67	69	ocd	Cum & Cir Cum	0	M	
2	6	4	"	"	3		30.00	71	67	66	69	"	"	0	"	Set fore and aft sail
3	6 1	4 0	N.W.×N.	"	4		30.00	71	67	66	64	ocr	"	0	"	Set ~~foresail~~.
4	7	8	"	"	4		30.00	68	67	63	64	ocp	"	0	"	
5	5 1	0 5	N.W.×W.	N×E.	3		30.00	68	63	62	62	bc	Cum nimb Str, cir-cum.	4	"	Took in foresail
6	6	0	N.W.×N.	N.E.	4		30.01	67	63	62	62	"	"	3	"	
7	7	0	"	"	3		30.03	66	63	62	62	ocd	"	0	"	
8	7	2	"	"	3		30.03	66	62	61	62	"	Cum & nimb	0	"	
9	7	0	"	"	4		30.03	65	62	61	62	"	"	0	S	
10	7	0	"	"	4		30.03	65	62	61	62	"	"	0	"	
11	7	2	"	"	4		30.04	63	60	59	61	oc	"	0	"	
Mid.	7	0	"	"	4		30.05	63	60	59	61	"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Sunday, May 4th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather pleasant, Fresh breeze from S.W. Under steam and sail. Barometer falling. Steam 58 lbs. Revs 50. Aneroid barometer 30.27. Patent log at end of watch 39.5. Smooth sea.

Karl Rohrer KR Lieut

4 to 8 A.M. Weather overcast and misty with fresh breeze from S.W. growing stronger throughout watch. Barometer falling. Took in spanker at 4.10. Took in and furled topgallantsails at 7.15, and sent down royal yards. Aneroid at end of watch 30.25. Steam 56. Rev's 50. Patent log 78.6.

Lieut

8 A.M to Meridian. Overcast and cloudy with light drizzling rain greater part of watch. Fresh breeze from S.W. shifting suddenly last hour to N.W. with very heavy rain, clearing at end of watch wind falling light. At 9.15 sent down topgallant yards. At 9.20 stopped steaming and uncoupled, banked fires. At 11.20 took in all sail to a squall and spread fires: started ahead one bell at 11.45. Furled sail. Patent log 105.2. Aneroid barometer 30.23.

W. M. Irwin
wnd Lieut

Meridian to 4 PM. Cloudy. Raining first three hours of watch, clearing last hour. Moderate sea from N.E. Light breeze from N.E. At 12.50 set all fore and aft sail: at 1.50 set foresail. At 2.50 changed course to N.W. by N. Aneroid 30.24. Patent log 31.8.

Wainwright Kellogg Lieut

4 to 6. P.M. Weather somewhat damp and cloudy. Gentle to moderate breeze from N by E to N.E. Barometer steady. Bent the cables. Under steam, pressure 45 lbs. and making 40 revolutions. Patent log at end of watch 44 knots. Aneroid barometer 30.26.

Karl Rohrer Lieut

6 to 8. P.M. Weather overcast with light drizzling rain. Barometer steady. Aneroid at end of watch 30.29. Pat. log 59.3. Steam 46. Rev. 40.

Lieut

8 P.M to Midnight. Overcast and cloudy with light drizzling rain first part. Moderate breeze from N.E. Steam 47 lbs. Revolutions 40.8. Aneroid barometer 30.30. Patent log 89.

W. M. Irwin
wnd Lieut

Moon l mid Examined and found to be correct.
Dec 3° 38' 29" N.
Phase, 1st Quarter.

W. J. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage to Yokohama. Japan. from Jaluit. Marshall Is

	Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	A. M.																
	1	7	6	NW×N	N E.	4		30.04	62	60	58	61	oc	Cir Cum & Cum	0	S	
	2	7	6	″	″	4		30.04	62	59	57	61	″	″	0	″	
	3	7	6	″	″	4		30.04	62	59	57	61	″	″	0	″	
n 34 32	4	7	2	″	″	4		30.04	62	59	57	61	″	″	0	″	
E 140	5	6	5	″	NNE	3		30.04	60	58	56	58	bc	Cir Cum Cum & strat	4	″	
1034	6	7	0	″	N.	2		30.06	61	58	56	58	″	″	3	″	Took in fore and aft sail
n 34° 55	7	7	0	″	NNW.	2		30.06	61	58	56	58	″	″	2	″	
E 139° 55'	8	3 ″ ″	6 ″ 2	N W½ W N W×W N W½ N N×W	N W.	1		30.07	61	59	57	58	bcz	″	2	″	
	9	7	6	N×E½E	″	1		30.07	62	60	58	58	″	″	5	″	
35 n 139 45	10	8	0	N×E¼E	″	1		30.07	63	62	58	58	″	″	6	″	
	11	Standing	up Tokio Bay		Calm	0		30.07	64	62	58	58	″	″	7	″	
	Noon.		″	″	NE	1		30.06	64	62	58	58	″	″	6	″	

Distance run by Log since preceding Noon 154 knots 5 tenths ~~fathoms.~~

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

1012. Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 900 "

Coal consumed during the preceding 24 hours 16 tons 1630 lbs.

Coal remaining on hand at Noon 44 " 1400 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.
P. M.															
Anchored			S. W	S. S. W	2		30.03	63	64	60		bc	Cir & Cum	7	″
2	″		″	″	2		30.01	65	66	60		″	″	6	″
3	″		S×W.	S×W.	2		30.00	68	67	61		″	″	6	″
4	″		″	″	2		29.99	67	67	61		″	″	4	″
5	″		S.S.W.	″	2		30.00	68	67	61		oc	″	0	″
6	″		SW×W.	SW×W.	2		30.00	68	65	58		″	″	0	″
7	″		S.S.W.	S.S.W.	2		30.00	65	63	58		″	″	0	″
8	″		″	″	2		30.00	67	63	58		bc	″	3	″
9	″		″	S.W.	1		30.00	67	64	61		″	″	5	″
10	″		″	″	1		30.01	65	65	61		″	Ci	8	″
11	″		E×S.	S.E.	1		30.02	65	63	61		bcm	″	9	″
Mid.	″		″	″	1		30.03	64	63	61		ocf	Cir Cum	0	″

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Monday May 5th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Light breeze from N.E. Smooth sea. Aneroid 30.28. Steaming under six boilers. Patent log 19.6.

Wainwright Kellogg Lieut

4 to 8 A.M. Weather pleasant. Light breeze from N.N.E to N.W. Barometer rising. At 4.20 sighted light bearing about N.N.W. By order of Captain changed course at 7.30 to N by W½W, at 7.46 to N.W by N. and at 7.50 to N.W ½ N. the patent log showing 49.5 knots at 8. Under steam, pressure 50 lbs and making 44 revolutions. Sighted a steamer at daylight standing in for Yeddo Bay. At daylight sighted land on both bows and ahead. Aneroid bar. 30.30

Saml W. Very Lieut

8 A.M. to Meridian. Weather hazy and pleasant. Light variable airs and calms. Barometer steady. Crossed top gallant yards at 8.40 and made preparations for port. Standing up Tokio Bay fot Yokohama under direction of Commanding Officer. Steering N ¾ W at end of watch, Yokohama harbor lying N.N.W. distant about six miles. Aneroid at end of watch 30.25. Steam 45. Revs. 44.

Lieut

Meridian to 4 P.M. Pleasant weather. Light breeze from S.S.W to S.W. At 12.45 called all hands bring ship to anchor, and at 12.50 let go port anchor in Yokohama harbor, veering to 15 fathoms on port chain. At 1.15 hove up port anchor, and shifted berth, letting go port anchor again at 1.20 in 6 fathoms water, veering to 30 fathoms chain. Bearings: English Hataba W.S.W. Mandarin Bluff S by E. Ships Head S.E. Ship's draft 13 ft. for'd, 15 ft 5 in. aft. Sent an officer to call on U.S. Consul, and extend the usual courtesies. Received an official visit from the Japanese Flagship and from H.B.M.S. "Sapphire". Hoisted out steam cutter. Hauled fires in four after boilers, and banked them in the starboard forward boilers. Aneroid barometer 30.22. Received a mail from the United States.

W. M. Irwin Lieut

4 to 8 P.M. Overcast first three hours of watch. Light breeze from S.W by W to S by W. At 4.45 went to quarters and served out clean hammocks. Several Japanese steamers came in and several went out. Aneroid barometer 30.21.

R. O. Bitler Ensign

8 P.M to Midnight. Pleasant weather. Foggy last hour. Light airs from S.W to S.E. Commenced distilling at 8.15. Aneroid barometer 30.26.

W. M. Irwin Lieut

Moon laid Examined and found to be correct.
Dec 0° 20' 08" S.
Phase, 1st Quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Yokohama, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															
Anchored			NNE.	NE.	1		30.00	62	59	58		ocfs	Cumulus	0	S
2	"		"	"	1		30.03	62	59	58		"	"	0	"
3	"		"	"	1		30.03	62	59	58		"	"	0	"
4	"		"	"	1		30.03	61	58	57		"	"	0	"
5	"		NE×N.	NE×N.	2		30.04	61	57	56		"	"	0	"
6	"		"	"	2		30.08	61	57	53		bc	Cum & Cir Cum	1	"
7	"		"	"	2		30.10	61	57	53		"	"	3	"
8	"		"	"	2		30.14	61	57	53		"	"	4	"
9	"		NNE.	NE×E	2		30.19	62	59	54		"	"	5	"
10	"		"	"	2		30.19	62	60	54		"	"	5	"
11	"		"	"	2		30.19	62	61	54		"	"	6	"
Noon.	"		"	"	2		30.19	62	62	55		"	"	5	"

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 350 gallons.

Water *distilled* during the preceding 24 hours 2000 "

Water remaining on hand fit for use at Noon 2550 "

Coal consumed during the preceding 24 hours 2 tons 1210 lbs.

Coal remaining on hand at Noon 42 " 90 "

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.															
1	"		NE	NE×E	3		30.18	64	62	55		bc	Cir Cum & Cum	7	"
2	"		"	"	2		30.18	64	62	55		"	"	6	"
3	"		NW	ENE.	1		30.17	64	62	55		"	"	5	"
4	"		"	"	1		30.17	64	62	55		"	"	6	"
5	"		NNE	"	2		30.17	66	65	59		"	Cir Cum	6	"
6	"		"	E×N.	2		30.17	66	64	58		"	Cir & Str	7	"
7	"		"	"	2		30.18	66	62	57		"	"	7	"
8	"		"	"	2		30.20	66	62	57		"	Cir	9	"
9	"		E×N.	ESE.	2		30.20	64	60	56		"	"	8	"
10	"		"	"	2		30.22	64	60	56		"	"	8	"
11	"		"	"	2		30.22	64	59	55		"	"	8	"
Mid.	"		"	"	2		30.22	64	58	55		"	"	8	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Tuesday, May 6th, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and to 4 A.M. Cloudy. Hazy. Light breeze from N.E. Distilling. Aneroid 30.24
Wainwright Kellogg USN Lieut

4 to 8 A.M. Cloudy weather, foggy first hour. Light breeze from NE by N. P. and O. steamer came in and anchored. One of the Japanese men of war shifted her berth to the Nd. At 7.40 loosed sail to a bowline. Aneroid barometer 30.38. Received on board in Pay Dept. 150 lbs. fresh beef and vegetables, and 120 loaves of bread.
R O Bitler Ensign.

8 A.M to Meridian. Clear and pleasant. Light breeze from N E by E. Inspected crew at quarters at 9.30. Comdg Officer left the ship to pay official visits. Transferred Ah Moon. Lds with his effects and necessary papers to U.S.N. Hospital on shore. Unbent flying jib and fore-topmast staysail. Aneroid barometer 30.38.
W.M. Irwin USN Lieut

Meridian to 4 P.M. Clear and pleasant. Light breeze from N E by E. first half of watch, E N E the remainder. At 1.00 paid the crew their monthly money. At 2 furled and unbent sail with the exception of jib and spanker. The 2d and 3d mates and six of the crew of the American ship "Ranier" left the ship having been taken charge of by the U.S Consul. The Comdg Officer paid officials visits on Comdg Officers of English and Japanese men of war, on the U.S Consul General, and Japanese Port Admiral. Aneroid 30.35
Wainwright Kellogg USN Lieut

4 to 8 P.M. Pleasant weather. Gentle breeze from E by N to E N E. Mustered at quarters at 4.45. Aneroid barometer 30.38.
W.M. Irwin USN Lieut

8 P.M to Midnight. Clear and cool. Light breeze from E S E. At 8 stopped distilling and hauled fires. Moonlight. Aneroid 30.42
Wainwright Kellogg USN Lieut

Moon at mid
Dec. 4°14'09. S.
Phase, 1st Quarter

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Yokohama, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N E × E.	N E × E.	1		30.20	63	58	55		bc	Cir Cum	7	S	
2	"		"	"	1		30.19	65	58	55		"	"	8	"	
3	"		"	"	1		30.17	63	57	54		"	"	8	"	
4	"		"	"	1		30.16	63	57	54		bcf	"	8	"	
5	"		N W	N N W.	1		30.17	61	56	53		bcz	Cir strat	8	"	
6	"		"	"	1		30.18	61	54	52		"	"	8	"	
7	"		"	"	1		30.18	60	55	52		"	"	8	"	
8	"		"	Calm	0		30.18	60	56	53		"	Cir & Cum	6	"	
9	"		N.	E × N.	1		30.18	62	58	56		"	"	7	"	
10	"		"	"	1		30.16	62	61	57		"	"	7	"	
11	"		S S E	S × E.	2		30.15	64	63	60		"	"	7	"	
Noon.	"		"	"	2		30.14	64	67	62		"	"	7	"	

Distance run by Log since preceding Noon		knots	fathoms.
Latitude by D. R. at Noon	°	′	″
Longitude by D. R. at Noon	°	′	″
Latitude by Observations at Noon ⊙	°	′	″
Longitude by Chronometer from Forenoon Observations ⊙	°	′	″
Current during the time knots fms. per hour, setting to the			
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	′	″
Variation of the Compass by Azimuth ⊙ observed at	°	′	″
Water expended during the preceding 24 hours		350	gallons.
Water distilled during the preceding 24 hours		850	"
Water remaining on hand fit for use at Noon		3000	"
Coal consumed during the preceding 24 hours	tons	840	lbs.
Coal remaining on hand at Noon	41 "	1490	"

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	"		S.	S	4		30.09	68	68	62		bc	Cir Cum	5	S	
2	"		"	"	4		30.07	68	68	62		"	"	5	"	
3	"		"	"	4		30.05	68	68	62		"	"	6	"	
4	"		"	"	4		30.04	69	68	62		"	"	6	"	
5	"		S S W	S. S. W.	4		30.03	69	68	62		"	"	6	"	
6	"		"	"	4		30.03	67	67	61		"	"	7	"	
7	"		"	"	4		30.03	67	65	60		"	Cir str	8	"	
8	"		"	"	4		30.03	67	64	60		"	Cir	9	"	
9	"		"	"	3		30.06	66	63	59		"	"	9	"	
10	"		"	"	3		30.06	64	62	59		"	"	9	"	
11	"		"	"	3		30.06	63	61	59		"	"	9	"	
Mid.	"		"	"	3		30.06	63	61	58.		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙	°	′	″
Longitude by Chronometer from Observations *	°	′	″
Variation of the Compass by Amplitude observed at sunset	°	′	″
Variation of the Compass by at	°	′	″

under the command of Commander A. H. McCormick, U. S. Navy,

Wednesday May 7, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, and cool. Light airs from N E by E. Falling barometer. Aneroid, at end of watch 30.38.

W. C. P. Muir Ensign

4 to 8 A.M. Clear, and pleasant. Light airs from N. N. W., calm last hour. Sent down main topsail yard, and landed it in port gangway. Commenced painting spars. Aneroid barometer 30.34.

W. M. Irwin Lieut

8 A.M. to Meridian. Clear, and pleasant, Light breeze from E to S by E. At 9.30 mustered at quarters. Received an official visit from Comdg Officer of English corvette "Sapphire" Boarded the American bark "B. F. Watson" and ship Pactolus. The Captain and first mate of the Rainier left the ship to live on shore. Painting spars. Half masted colors with Japanese men of war. Aneroid 30.36.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Clear, and pleasant, Moderate breeze from South. Falling barometer. Received official visits from Comdg Officers of the Japanese men of war in harbor. Engaged in painting masts, and yards. Aneroid, at end of watch 30.22. Veered to 45 fathoms on port chain.

W. C. P. Muir Ensign

4 to 8 P.M. Clear, and pleasant, Moderate breeze from S S W. Boarded American ship "Lucile" from New York. Aneroid 30.22. Painting spars.

Wainwright Kellogg Lieut

8 P.M. to Midnight. Clear and bright. Cool. Gentle to moderate S. S. W winds. Steady barometer. Aneroid, at end of watch 30.27.

W. C. P. Muir Ensign

Moon l mid.
Dec. 7° 55' 05" S.
Phase, 1st Quarter,

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Yokohama Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			S.S.W.	S.S.W.	2		30.06	62	61	58		bc	Ci Cum	7	S	
2	"		"	"	2		30.05	62	61	58		"	"	8	"	
3	"		"	"	1		30.05	62	61	58		"	"	8	"	
4	"		"	"	1		30.05	62	60	57		"	"	8	"	
5	"		"	Var.	0-1		30.07	62	61	59		bcz	Ci & Cum Sts	6	"	
6	"		"	"	0-1		30.08	62	61	59		"	"	6	"	
7	"		"	"	0-1		30.09	64	62	60		"	"	6	"	
8	"		N.W.	"	0-1		30.10	64	62	60		"	Ci Cum	6	"	
9	"		N.	E.	1		30.11	65	64	64		"	"	5	"	
10	"		"	"	1		30.12	66	67	64		"	"	6	"	
11	"		S.E.	S.E.	1		30.12	67	67	63		"	"	8	"	
Noon.	"		"	"	1		30.12	67	67	63		"	"	7	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *400* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2600* "

Coal consumed during the preceding 24 hours tons *400* lbs.

Coal remaining on hand at Noon *41* " *1090* "

P. M.																
1	"		S.E.	S.E.	3		30.12	67	67	65		bc	Ci Cum	7	"	
2	"		"	S.W. by S.	4		30.10	68	70	65		"	"	7	"	
3	"		S.W.	"	4-5		30.10	69	70	65		bcz	"	6	"	
4	"		"	"	4-5		30.10	69	70	65		"	"	7	"	
5	"		"	"	4-5		30.09	69	70	65		"	"	7	"	
6	"		"	"	4-5		30.06	71	68	63		"	"	7	"	
7	"		S.E.	S.E. by S.	4-5		30.06	68	68	63		"	"	5	"	
8	"		"	"	4-5		30.06	68	68	63		"	"	5	"	
9	"		S. by E.	S.S.W.	2-4		30.12	69	66	62		"	"	3	"	
10	"		"	"	2-4		30.13	69	66	62		"	"	4	"	
11	"		"	"	2-4		30.14	68	66	62		"	"	3	"	
Mid.	"		"	"	2-4		30.14	68	66	62		"	"	3	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;
Thursday, May 8, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant weather. Light breeze from S S W. Barometer steady. Aneroid barometer 30.27.

Karl Rohrer, JR Lieut

4 to 8 A.M. Hazy. Pleasant. Light variable airs. Hoisted the main topsail yard over the side ready for going ashore. Aneroid 30.30.

Wainwright Kellogg Lieut

8 A.M to Meridian. Clear and pleasant. Light variable airs. Rising barometer. Went to quarters at 9.30 for muster. Received an official visit from the Admiral of the Port and extended the usual honors. Engaged in painting spars. Hoisted fore topgallant yard over the side and sent it and main topsail yard ashore. Aneroid at end of watch 30.28.

W. P. White Ensign.

Meridian to 4 P.M. Clear and pleasant weather. Breeze moderate to fresh from S E to S W by S. Barometer steady. Employed in painting ship. Aneroid barometer 30.26.

Karl Rohrer Lieut

4 to 8 P.M. Pleasant weather. Moderate S W by S winds, hauling to S E by E latter part of watch. Mustered at quarters at 4.45. Aneroid at 8 P.M. 30.28.

W. P. White Ensign.

8 P.M to Midnight. Weather clear and pleasant. Light to moderate breeze from S. S. W. Barometer rising. The American barque "B. F. Watson" got underway and left the harbor. Aneroid barometer 30.32.

Karl Rohrer, Lieut

Moon l mid Examined and found to be correct.
Dec 11° 13' 44" S.
Phase. 1st Quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Yokohama Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			S.	S.W.	3-5		30.14	69	66	64		bcqz	Cir Cum & Cum	2	S	
2	"		"	"	2-4		30.14	69	66	64		"	"	4	"	
3	"		"	"	3		30.12	69	66	64		bc	"	3	"	
4	"		S.S.W.	"	3		30.10	69	66	64		"	"	3	"	
5	"		"	S.S.W.	2		30.09	66	64	62		"	"	4	"	
6	"		"	"	1		30.09	66	65	62		"	"	1	"	
7	"		"	"	3		30.09	67	65	62		"	"	3	"	
8	"		"	"	3		30.10	68	68	64		"	"	2	"	
9	"		"	"	4		30.14	68	69	64		"	"	4	"	
10	"		"	"	4-5		30.15	70	69	64		bcz	"	4	"	
11	"		"	"	4-5		30.15	70	69	64		"	"	4	"	
Noon.	"		"	"	4-5		30.14	71	71	69		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 375 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2225 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 14 " 690 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		S.S.W.	S×W	3-4		30.14	71	71	69		bcq	Cir & Cum	3	S	
2	"		"	"	4-5		3.12	74	71	69		"	"	2	"	
3	"		S.	"	4-5		30.09	73	71	69		"	"	3	"	
4	"		"	"	4-5		30.07	73	71	69		"	"	3	"	
5	"		S.S.W.	S.S.W	4-5		30.05	71	69	65		"	Cum & Cir Cum	1	"	
6	"		"	"	4-5		30.05	71	69	65		"	"	1	"	
7	"		"	"	4-5		30.04	70	67	64		"	"	2	"	
8	"		"	"	4-5		30.04	70	67	64		"	"	2	"	
9	"		"	"	4-5		30.07	69	66	64		"	Cir Cum Cum Str	3	"	
10	"		"	"	5-6		30.08	68	66	64		"	"	3	"	
11	"		"	"	5.6		30.08	68	66	64		"	"	4	"	
Mid.	"		"	"	4		30.08	68	66	64		bc	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Friday. May 9th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather hazy and pleasant. Gentle breeze from S.W. Barometer steady. Aneroid at end of watch 30.30.

Lieut

4 to 8. A.M. Generally cloudy. Light to gentle S.S.W. winds. Barometer rising slowly. Made preparations for painting ship. Aneroid 30.32.

W.C.P. Muir Ensign.

8. A.M to Meridian. Weather pleasant, though somewhat squally. Moderate to fresh breeze from S.S.W. Barometer steady. Mustered and inspected crew at quarters at 9.30. Painting ship inside. Received on board in Equip't Dept, 1 coil marline, 1 coil 20 thd ratline. 1 coil 15 thd line 1 coil 1¾ in Manilla. 1 hank of cod line, and 5 gallons tar oil; in Construction Dept 100 lbs black paint, 232 lbs of white lead, 150 lbs of white zinc, 100 lbs of yellow ochre, 2 lbs of patent dryer, 8 galls. of boiled oil. 10 galls. of turpentine and 3 paint brushes. Aneroid barometer 30.29.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather partly cloudy and pleasant. Moderate breeze from S by W. Barometer falling. Painting ship inside. Aneroid at end of watch 30.23.

Lieut

4 to 8. A.M. Weather pleasant. Breeze fresh in squalls from S.S.W. Barometer falling. Painting ship inside. Mustered at quarters at 4.45. Aneroid barometer 30.24.

Karl Rohrer, Lieut

8 A.M to Midnight. Weather cloudy and squally. Barometer beginning to rise. Wind from S S W. Aneroid at end of watch 30.27.

Lieut

Moon's mid Examined and found to be correct.
Dec. 14° 05' 26." S.
Phase, Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Yokohama, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			S × W	S. S. W.	3-5		30.07	67	66	64		bcg	Ci cum & Cum	2	S	
2	"		"	"	3-5		30.06	67	66	64		"	"	3	"	
3	"		S.	S × W.	1		30.05	67	66	64		bc	"	1	"	
4	"		S. "	"	2		30.04	67	66	64		"	"	1	"	
5	"		S. S. W.	S. S. W.	1-3		30.04	67	65	63		bcg	Cum, Ci cum & strat	2	"	
6	"		"	"	2		30.04	67	65	63		bc	"	1	"	
7	"		"	"	1		30.04	67	66	64		"	Cum & Ci cum	2	"	
8	"		"	"	1		30.04	67	66	64		"	"	2	"	
9	"		"	"	2		30.08	68	68	66		"	"	4	"	
10	"		"	"	3		30.08	70	69	67		"	"	5	"	
11	"		"	"	3		30.08	70	69	67		"	"	5	"	
Noon.	"		"	"	3		30.08	71	70	68		"	"	6	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ' "	
Longitude by D. R. at Noon	° ' "	
Latitude by Observations at Noon ⊙	° ' "	
Longitude by Chronometer from Forenoon Observations ⊙	° ' "	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ' "	
Variation of the Compass by Azimuth ⊙ observed at	° ' "	
Water expended during the preceding 24 hours	400	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	1825	"
Coal consumed during the preceding 24 hours	tons	840 lbs.
Coal remaining on hand at Noon	40 "	2090 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		S × W	S. S. W.	3		30.06	71	71	67		bc	Cum, Cir cum & Cir strat	3	S	
2	"		"	"	4		30.05	71	71	68		"	"	5	"	
3	"		"	"	4		30.04	72	71	67		"	"	4	"	
4	"		"	"	4		30.02	72	71	67		"	"	4	"	
5	"		"	"	4		30.03	72	71	67		"	"	3	"	
6	"		"	"	3		30.03	72	71	67		"	"	2	"	
7	"		"	"	3		30.03	72	71	67		bcd	"	1	"	
8	"		"	"	3		30.03	72	71	67		"	"	2	"	
9	"		"	"	3		30.03	70	68	66		"	Cir cum & nimb	1	"	
10	"		"	"	3		30.03	70	68	66		"	"	1	"	
11	"		"	"	3		30.13	70	68	66		"	"	1	"	
Mid.	"		"	"	3-4		30.03	70	68	66		bc	"	3	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Saturday. May 10th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy weather. Wind from S S W in squalls first two hours from S by W, and falling light last two hours. Aneroid barometer 30.23.

R. V. Bitler Ensign

4 to 8 A.M. Weather pleasant. Light breeze from S. S. W. Barometer steady. Painting ship inside. Received on board for crew 140 lbs of fresh beef and 140 lbs of vegetables, also 112 loaves of bread. Aneroid barometer 30.27.

Karl Rohrer, Lieut

8 A.M. to Meridian. Weather clear and pleasant. Gentle breeze from S. S. W. Barometer steady. Mustered at quarters at 9.30. Found Louis Deistel (Sea) and R. W. Allen (OS) absent without leave. Sent rewards for their apprehension. Lieut. M. R. S. Mackenzie left the ship on two days leave of absence. Painting ship inside. Aneroid at end of watch 30.24. Received in Department of Steam Engineering the following articles, Viz. 40 ft 3/8 in round iron, 40 ft 1/2 in. do. 40 ft 1/4 in. do. 72 galls. lard oil. 300 galls. olive oil, and 10 lbs potash.

C. Rees Lieut

Meridian to 4 P.M. Cloudy and pleasant. Gentle to moderate S. S. W breeze. Aneroid barometer 30.19.

R. V. Bitler Ensign.

4 to 8. P.M. Weather cloudy and pleasant. Light drizzling rain latter part of watch. Barometer steady. Louis Deistel (Sea) was brought on board by police authorities. Mustered at quarters at 4.45. R. W. Allen (OS) absent without leave. Aneroid at end of watch 30.20.

C. Rees for Lieut

8 P.M. to Midnight. Cloudy with drizzling rain. Gentle S S W. breeze. Aneroid barometer 30.20.

R. V. Bitler Ensign

Moon (mid). Examined and found to be correct.

Dec 16° 20' 37" S.

Phase. Full moon.

Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate, 6 Guns,

Yokohama. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			S.	S.S.W	2		30.03	69	67	66		bc	Ci-Cum Cu & Nimb	3	S	
2	"		"	"	3		30.03	69	67	66		"	"	3	"	
3	"		"	"	3		30.03	68	66	65		"	"	2	"	
4	"		"	"	2		30.02	67	66	65		ocd	"	0	"	
5	"		"	"	1		30.02	67	66	65		bcd	"	2	"	
6	"		"	"	1		30.00	69	66	65		ocd	"	0	"	
7	"		"	"	1		29.98	69	67	65		"	"	0	"	
8	"		"	"	1		29.98	69	67	65		bcd	"	2	"	
9	"		S×W	S×W.	1		29.97	69	67	67		"	"	3	"	
10	"		"	"	1		29.97	69	67	67		"	"	2	"	
11	"		"	"	1		29.95	71	69	68		bc	"	3	"	
Noon.	"		"	"	1		29.95	71	69	68		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 325 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1500 "

Coal consumed during the preceding 24 hours tons 620 lbs.

Coal remaining on hand at Noon 40 " 1470 "

P. M.																
1	"		S S W	S.S.W	4-5		29.93	73	72	70		bcq	Ci & Cum	6	S	
2	"		"	"	4-5		29.90	73	72	70		"	"	6	"	
3	"		"	"	4-5		29.88	73	72	70		"	"	7	"	
4	"		"	"	4-5		29.86	73	72	70		"	"	5	"	
5	"		"	"	2-4		29.84	74	71	68		"	Cir-Cum Nimb & Str	4	"	
6	"		"	"	2-4		29.82	73	69	67		"	Cir-Cir. Cum & Strat	5	"	
7	"		"	"	2-4		29.82	72	68	66		"	"	7	"	
8	"		"	"	2-4		29.82	71	67	66		bcql	"	8	"	
9	"		W×S.	N.W.	1		29.86	70	67	66		bcl	"	8	"	
10	"		"	"	1		29.88	70	67	66		"	"	4	"	
11	"		N.N.E	NNE	1		29.90	70	68	66		oc	"	0	"	
Mid.	"		"	"	1		29.91	70	68	66		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Sunday. May 11th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Gentle breeze from S.S.W. Aneroid barometer 30.20.

W.M. Irwin
Comd Lieut

4 to 8 A.M. Weather overcast with light drizzling rain. Barometer falling. Received for use of ships company, 162 lbs fresh bread. 140 lbs fresh beef. Aneroid, at end of watch 30.18.

Rey Lieut.

8 A.M. to Meridian. Cloudy and pleasant. Drizzling rain first two hours of watch. Light airs from S by W. At 9.30 called all hands to muster and read Articles for government of Navy, also Squadron Circulars Nos. 4 and 5. Squadron G.C.M.O's. Nos 5 and 6; Circular letter of April 11. 1884 Squadron G.O. Nos 3 and 4; and obituary order on death of Ex-Sec. of the Navy Hunt. Japanese merchant steamer came in, and anchored, also a German bark. Aneroid barometer 30.11.

R.O. Bitter Ensign.

Meridian to 4 P.M. Pleasant weather. Moderate to fresh breeze from S.S.W. with occasional puffs. Barometer falling. Aneroid barometer at end of watch 30.04.

W.M. Irwin
Comd Lieut

4 to 8 P.M. Pleasant weather. Light to moderate winds in squalls from S.S.W. Lightning last hour. Aneroid barometer 30.05.

R.O. Bitter Ensign.

8 P.M. to Midnight. Cloudy and cool. Gentle breeze from N.W. hauling to N.N.E. Barometer rising. Aneroid barometer 30.08.

W.M. Irwin Lieut

Moon l. mid - Examined and found to be correct.
Dec. 17° 53' 40" S.
Phase. Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Yokohama. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N E.	N E.	4-5		29.91	65	60	58		ocq	Cir cum nimb	0	S	
2	"		"	"	4-5		29.91	64	59	57		ocqd	"	0	"	
3	"		"	"	4-5		29.89	62	58	56		"	Cum & nimb	0	"	
4	"		"	"	4-5		29.88	62	57	56		"	"	0	"	
5	"		"	"	3-5		29.88	60	55	54		"	"	0	"	
6	"		"	"	2-4		29.88	60	55	54		ocqr	"	0	"	
7	"		"	"	2-3		29.88	60	55	54		"	"	0	"	
8	"		"	"	2-4		29.89	59	54	52		"	"	0	"	
9	"		N.	N + E.	3		29.90	60	54	53		ocr	"	0	"	
10	"		N E.	N E.	3-5		29.90	62	55	53		ocqr	"	0	"	
11	"		"	N N E	3-4		29.90	62	55	53		"	"	0	"	
Noon.	"		"	"	3		29.90	62	55	53		ocr	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1200* "

Coal consumed during the preceding 24 hours tons *840* lbs.

Coal remaining on hand at Noon *40* " *630* "

P. M.																
1	"		N E.	N E + E.	4-5		29.90	62	54	53		ocqr	Cum & nimb	0	"	
2	"		"	N E	4-5		29.88	62	54	53		ocqd	"	0	"	
3	"		"	"	4-5		29.87	62	54	53		ocqr	"	0	"	
4	"		"	"	4-5		29.87	60	53	52		"	"	0	"	
5	"		"	"	4		29.89	60	54	52		ocr	"	0	"	
6	"		"	"	4		29.90	60	54	52		oc	"	0	"	
7	"		"	"	4		29.90	60	54	52		"	"	0	"	
8	"		"	"	4		29.91	60	54	52		"	"	0	"	
9	"		"	"	4		29.92	62	55	53		"	"	0	"	
10	"		"	"	4		29.93	61	54	53		"	Cir cum & cum	0	"	
11	"		"	"	4		29.94	60	54	53		bc	"	2	"	
Mid.	"		"	"	4		29.95	60	54	53		"	"	1	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Monday May 12, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, raining last three hours of watch. Fresh breeze from N.E. Aneroid 30.12.

Wainwright Kellogg
wk Lieut

4 to 8 A.M. Rainy weather. Light to fresh breeze from N.E. with occasional strong puffs. Aneroid barometer 30.14.

R. O. Bitler
Ensign

8 A.M. to Meridian. Overcast and cloudy with continuous rain. Moderate breeze from N by E to N.E. with occasional squalls. Dispensed with quarters on account of the weather. Barometer steady. Aneroid barometer 30.14.

W. H. Schuetze Lieut

Meridian to 4 P.M. Cloudy. Disagreeable. Raining entire watch. Moderate to fresh breeze from N.E. Aneroid steady at 30.13.

Wainwright Kellogg Lieut

4 to 8 P.M. Overcast and cloudy with light rain first hour. Moderate breeze from N.E. Mustered at quarters at 4.45. Aneroid barometer 30.18.

W. H. Schuetze Lieut

8 P.M. to Midnight. Cloudy. Cool. Moderate breeze from N.E. Clearing weather. Aneroid 30.21.

Wainwright Kellogg
wk Lieut

Moon Lmid
Dec 18° 40' 14" S.
Phase, Full moon.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Yokohama Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N E	N E	3-4		29.97	59	54	52		bcq	Cum & Cir Cumu	1	S	
2	"		"	"	3		29.97	59	54	52		oc	"	0	"	
3	"		"	"	2		29.97	58	54	52		"	"	0	"	
4	"		"	"	1		29.98	58	54	52		bc	"	2	"	
5	"		"	"	2		30.00	58	55	53		"	Cir Cum & strat	2	"	
6	"		"	"	2		30.05	58	54	52		"	"	3	"	
7	"		"	"	1		30.08	57	53	51		"	"	4	"	
8	"		"	"	1		30.10	57	54	52		"	Cir Cum	4	"	
9	"		"	"	1		30.11	59	55	53		"	"	4	"	
10	"		"	"	1		30.12	59	56	53		"	Cirrus & Cir-Cum	6	"	
11	"		E	E	1		30.13	60	57	53		"	"	5	"	
Noon.	"		"	"	1		30.15	61	59	55		"	"	3	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 900 "

Coal consumed during the preceding 24 hours tons 620 lbs.

Coal remaining on hand at Noon 11 " 10 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		E.	E	1		30.15	63	60	56		bc	Cir cum nimbs	4	"	
2	"		"	Calm	0		30.15	63	60	56		"	"	5	"	
3	"		"	"	0		30.15	63	60	56		"	"	2	"	
4	"		"	"	0		30.15	63	60	56		"	"	1	"	
5	"		S x W	S S W.	2		30.15	64	62	58		"	Cir Cum Cum. strat	3	"	
6	"		"	"	2		30.17	64	61	57		"	"	2	"	
7	"		S. S. E.	S. E.	2		30.20	64	60	56		"	"	1	"	
8	"		"	"	3		30.22	64	60	56		"	"	1	"	
9	"		E	E.	2		30.23	63	58	51		"	Cir Cum	4	"	
10	"		"	"	2		30.23	63	58	51		"	"	3	"	
11	"		N E	N. E	2		30.24	62	58	53		"	"	3	"	
Mid.	"		"	"	2		30.24	62	58	53		oc	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Tuesday May 13th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Moderate winds first part of watch, decreasing in force latter part. Barometer steady. Aneroid 30.22.

W. C. P. Muir. Ensign

4 to 8 A.M. Cloudy and cool. Light breeze from N.E. Mail steamer from Shanghai and Hong Kong came in and anchored. Loosed jib & spanker to dry. Aneroid barometer 30.33. Recd in Pay Department for use of crew 140 lbs fresh beef and vegetables, and 112 loaves of bread.

W. H. [illegible]

wmg Lieut

8 A.M. to Meridian. Clear and pleasant. Light breeze from N.E. gradually hauling to East. At 8.30 new main topsail and fore topgallant yards and port fore topmast stunsail boom came alongside and were found to be satisfactory. Sent the main topsail yard across and got in fore topgallant yard and topmast stunsail boom. Aneroid 30.37.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Overcast and pleasant. Calm to light airs from East. Barometer steady. At 1.00 furled jib and spanker. Painted main topsail yard. Aneroid barometer 30.22. By order of Commanding Officer confined Wm Winchester (C.B.M.) under sentry's charge for safe keeping.

W. C. P. Muir Ensign

4 to 8 P.M. Cloudy. Cool. Light breeze from S.S.W. to S.E. At 4.45 mustered at quarters. Aneroid 30.40.

Wainwright Kellogg

ok Lieut

8 P.M. to Midnight. Cool and cloudy. Light wind from East, hauling to N.E. latter part of watch. Barometer rising slowly. Aneroid, at end of watch 30.42.

W. C. P. Muir Ensign

Moon's mid Examined and found to be correct.
Dec 18°37'25" S.
Phase Full moon,

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Yokohama, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N.	N E.	2		30.24	62	58	54		oc	Cir cum & cum	0	S	
2	〃		〃	N.	3		30.24	62	58	54		〃	〃	0	〃	
3	〃		〃	〃	3		30.22	62	58	54		〃	〃	0	〃	
4	〃		〃	〃	3		30.20	62	56	52		〃	〃	0	〃	
5	〃		〃	〃	4		30.22	59	55	51		〃	Cum & nimb	0	〃	
6	〃		〃	〃	4		30.23	59	55	52		ocd	〃	0	〃	
7	〃		〃	〃	4		30.23	59	55	52		ocr	〃	0	〃	
8	〃		〃	〃	4		30.23	58	54	52		〃	〃	0	〃	
9	〃		〃	〃	3		30.23	58	54	52		〃	〃	0	M	
10	〃		〃	〃	3		30.23	58	54	52		〃	〃	0	〃	
11	〃		〃	〃	2		30.23	58	54	52		〃	〃	0	〃	
Noon.	〃		〃	〃	2		30.23	58	53	52		〃	〃	0	〃	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ⊙	° ′ ″	
Longitude by Chronometer from Forenoon Observations ⊙	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ⊙ observed at	° ′ ″	
Water expended during the preceding 24 hours	300	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	600	"
Coal consumed during the preceding 24 hours	1 tons 30	lbs.
Coal remaining on hand at Noon	38 " 2220	"

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.															
1	〃		N.	N	4		30.20	60	54	53		ocr	Cum & nimb	0	S
2	〃		〃	〃	5		30.16	65	54	53		〃	〃	0	〃
3	〃		〃	〃	5		30.13	66	54	53		〃	〃	0	〃
4	〃		〃	〃	5		30.11	66	54	53		〃	〃	0	M
5	〃		〃	〃	5		30.07	65	53	52		or	Nimb	0	〃
6	〃		〃	〃	5		30.00	66	53	52		〃	〃	0	〃
7	〃		〃	〃	5		29.97	63	53	52		〃	〃	0	〃
8	〃		〃	〃	5		29.94	62	52	52		〃	〃	0	〃
9	〃		〃	〃	5–6		29.92	62	53	52		ocqr	〃	0	〃
10	〃		〃	〃	5–6		29.92	62	53	52		〃	〃	0	〃
11	〃		〃	〃	4		29.91	60	54	53		oc	Cir Cum nimb	0	〃
Mid.	〃		〃	〃	2		29.91	60	54	53		〃	〃	0	〃

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Wednesday May 14th, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and cloudy, but not unpleasant. Light to gentle breeze from N to NE. Barometer falling. Aneroid barometer 30.44.

Karl Rohrer, KR
Lieut

4 to 8 A.M. Cloudy. Cool. Raining last two hours of watch. Moderate breeze from North. Aneroid 30.45.

Wainwright Kellogg
WK Lieut

8 A.M. to Meridian. Rainy and cool. Light winds from North. Steady barometer. Received in Pay Dept one barrel of sugar. By order of Commanding Officer placed Wm Winchester (CBM) under sentry's charge for five days for being drunk on duty. Started fires under boilers Nos 2 and 4 at 10 o'clock for distilling purposes. Aneroid barometer 30.44

W. C. P. Muir Ensign

Meridian to 4 P.M. Weather overcast and rainy. Moderate to fresh breeze from North. Barometer falling. Distilling water. Aneroid barometer 30.33.

Karl Rohrer, Lieut

4 to 8 P.M. Rainy, cool, disagreeable. Fresh winds from North. Falling barometer, Aneroid at end of watch 30.21.

W. C. P. Muir Ensign

8 P.M. to Midnight. Weather overcast and rainy in first part of watch. Breeze light to fresh in squalls from North. Barometer falling. Distilling water. Aneroid barometer 30.17.

Karl Rohrer, Lieut

Moon's mid. Examined and found to be correct.
Dec. 17° 44' 28" S.
Phase. Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Yokohama Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N.W.	N.	2		29.90	59	54	52		oc	Cum & nimb	0	S	
2	"		"	"	1		29.90	59	54	53		"	"	0	"	
3	"		"	Calm	0		29.90	59	55	53		"	"	0	"	
4	"		N.N.E	"	0		29.90	59	55	53		"	"	0	"	
5	"		"	"	0		29.90	58	56	54		"	"	0	"	
6	"		"	N.E	1		29.90	58	56	54		bc	Cir Cum Cum & Str	2	"	
7	"		"	"	1		29.91	57	55	53		"	"	2	"	
8	"		"	"	1		29.92	57	55	54		"	"	3	"	
9	"		S.S.E.	S.S.E.	1		29.94	59	58	56		"	"	4	"	
10	"		"	"	1		29.96	69	60	58		"	"	2	"	
11	"		"	"	1		29.98	70	61	58		"	"	2	"	
Noon.	"		N.E.	N.N.E.	1		30.00	71	62	60		"	"	4	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ☉	° ′ ″	
Longitude by Chronometer from Forenoon Observations ☉	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ☉ observed at	° ′ ″	
Water expended during the preceding 24 hours	300	gallons.
Water *distilled* during the preceding 24 hours	2600	"
Water remaining on hand fit for use at Noon	2900	"
Coal consumed during the preceding 24 hours	2 tons	1750 lbs.
Coal remaining on hand at Noon	49 "	1170 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	"		S.E	S.E.	1		30.00	69	64	61		bc	Cir & Ci Cum	6	"	
2	"		"	"	1		30.00	68	65	62		"	"	5	"	
3	"		"	"	1		29.99	68	66	63		"	"	5	"	
4	"		"	"	1		29.99	69	66	63		"	"	4	"	
5	"		"	"	1		29.99	69	66	63		"	"	4	"	
6	"		"	S.W.	1		30.00	70	66	63		"	"	4	"	
7	"		"	"	1		30.02	70	65	62		"	"	3	"	
8	"		S.W	"	1		30.02	69	65	62		bcm	"	5	"	
9	"		"	"	1		30.02	69	64	61		"	"	4	"	
10	"		N.N.W.	N.W	1		30.04	66	64	61		"	"	4	"	
11	"		"	"	1		30.04	65	64	61		"	"	7	"	
Mid.	"		"	"	1		30.04	65	64	61		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ☉ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Thursday, May 15th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and damp. Calm. Barometer steady. Distilling. Aneroid at end of watch 30.15.

C. P. Rees Lieut

4 to 8 A.M. Clearing weather with light N E airs. Barometer rising slowly. Made preparations for coaling ship. Lighters came alongside at 6 oc. By order of Commanding Officer placed Geo. W. Wrightington OS, in double irons under sentry's charge. Aneroid at 8 A.M. 30.18.

W. C. P. Muir Ensign.

8 A.M to Meridian. Weather clear and pleasant. Light breeze from S.S.E. Barometer rising. Mustered and inspected crew at quarters at 9.30. Took in 13 $\frac{700}{2240}$ tons of coal. Stopped distilling and banked fires. R. W. Allen. (OS) Thos. Fitzpatrick (PM) and Benjn. Campbell (P.M) absent from ship without leave. Loosed jib and spanker to dry. Fitting main topsail yard. Received on board from Naval Hospital. Frank H. Whitney (OS) for transfer to "Enterprise." Rec'd on board in Dept of Provisions and clothing 5 bbls and one package of sugar.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather clear and pleasant. Light airs from S E. Barometer falling. Repaired main topsail. Aneroid at end of watch 30.18.

C. P. Rees Lieut

4 to 8. P.M. Clear and pleasant. Light breeze from S. E to S W. Barometer rising. Aneroid barometer 30.25. Mustered at quarters at 4.45. the same men absent without leave as at morning quarters.

Karl Rohrer Lieut

8 P.M to Midnight. Weather cloudy early part of watch, growing clear latter part. Barometer steady. Light airs from N. W. Aneroid at end of watch 30.25.

C. P. Rees Lieut

Moon's mid Examined and found to be correct.
Dec 16° 02' 38" S.
Phase Full moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Yokohama Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			S E	Calm	0		30.05	65	65	60		b c m	Cir Cum & Cum	7	S.	
2	"		W.	"	0		30.06	65	63	60		"	"	6	"	
3	"		N E.	N E.	3		30.07	65	63	60		"	"	3	"	
4	"		"	"	2-3		30.07	65	63	60		"	"	3	"	
5	"		"	"	2		30.08	61	60	57		"	Cir Cum Cum strat	3	"	
6	"		N.	N.	1		30.10	61	58	56		"	"	4	"	
7	"		"	"	1		30.11	61	58	56		"	Cum & Cir Cum	2	"	
8	"		"	"	1		30.12	62	61	56		"	"	4	"	
9	"		N N E.	N. N E.	2		30.12	64	63	57		b c	"	4	"	
10	"		"	"	2		30.14	65	63	58		"	"	4	"	
11	"		"	"	1		30.14	66	65	59		"	"	2	"	
Noon.	"		"	"	2		30.14	66	66	60		"	"	5	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 330 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2570 "

Coal consumed during the preceding 24 hours 1 tons 1570 lbs.

Coal remaining on hand at Noon 116 " 1840 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.															
1	"		N N E	N E.	2		30.12	68	68	60		b c	Cir Cum & Cum	6	"
2	"		"	E N E.	1		30.11	69	68	60		"	"	7.	"
3	"		"	"	1		30.11	70	68	63		"	"	6	"
4	"		E	E	1		30.10	70	68	63		"	"	7	"
5	"		"	"	1		30.11	69	68	63		"	"	7	"
6	"		S W.	E S E	1		30.11	69	68	64		"	"	7	"
7	"		"	"	1		30.12	69	68	64		"	"	7	"
8	"		"	"	1		30.12	69	68	64		"	"	6	"
9	"		N W	S. W.	1		30.14	67	68	64		"	"	6	"
10	"		"	"	1		30.14	66	67	63		"	"	6	"
11	"		"	"	1		30.14	65	66	62		"	"	7	"
Mid.	"		"	"	1		30.14	65	65	62		"	"	7	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Friday May 16. , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Pleasant weather. Calm first two hours; light to gentle N.E. breeze last two. Aneroid barometer 30.28.

R O Bitler Ensign

4 to 8 A.M. Weather pleasant. Light breeze from N to N E. Barometer rising. Made preparations for coaling and the coal lighters coming alongside abt, commenced coaling. Aneroid barometer 30.33.

Karl Rohrer Lieut.

8 A.M to Meridian. Weather partly cloudy and pleasant. Light airs from N. N. E. Barometer steady. Rec'd in Dept of Steam Engineering 5 fire room plates, 1 pr pipe tongs, 2 globe valves. Finished coaling having received 69 tons coal. Aneroid at end of watch 30.32

Lieut

Meridian to 4 P.M. Clear and pleasant weather. Light airs to light breeze from E N E and N. E. At 2.10 called all hands and bent topsails and foresail, and crossed topgallant yards. Aneroid barometer 30.27. Thomas Fitzpatrick. (P.M.) was brought on board by police, and a reward of $10.00 was paid. A reward of $10.00 was also paid for Louis Deistel. (Sea.) who had been brought on board by police on the 11th inst. Wm Toole. (2 C.H) was placed in double irons for being under the influence of liquor.

R. O. Bitler Ensign.

4 to 8 P.M. Weather clear and pleasant. Light airs from E.S.E. Barometer steady. Mustered at quarters at 4.45. Aneroid at end of watch 30.30.

Lieut

8 P.M. to Midnight. Clear and pleasant. Light airs from S.W. Confined L. Deistel Sea. and Thos. J. Wynne, (C.M.) in double irons for being under the influence of liquor on board ship. Aneroid barometer 30.31.

R O Bitler Ensign

Moon l mid Examined and found to be correct.
Dec. 13° 35' 04" S.
Phare. Full moon.

W. H. Porter
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Yokohama. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N.N.W.	Calm	0		30.14	65	65	62		bcm	Ci. Cum	7	8	
2	"		"	"	0		30.14	65	64	61		"	"	8	"	
3	"		W.	"	0		30.14	64	63	61		"	"	8	"	
4	"		S.W.	S.W.	0-1		30.14	63	63	60		"	"	8	"	
5	"		"	Calm	1		30.14	61	60	59		"	"	7	"	
6	"		"	"	1		30.16	60	60	59		"	"	7	"	
7	"		N.W.	N.W.	1		30.18	62	60	57		"	"	5	"	
8	"		"	"	1		30.20	63	61	59		"	"	4	"	
9	"		"	"	1		30.20	63	61	59		"	"	5	"	
10	"		E	S.E.	1		30.20	65	65	63		bc	"	6	"	
11	"		"	"	1		30.20	66	65	63		"	"	3	"	
Noon.	"		"	"	1		30.20	67	69	65		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *325* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2345* "

Coal consumed during the preceding 24 hours tons *840* lbs.

Coal remaining on hand at Noon *116* " *1000* "

P. M.																
1	"		S.E.	S by E	1		30.20	69	69	65		bc	Ci & Cum	2	"	
2	"		S.S.W.	"	2		30.20	69	70	64		"	"	2	"	
3	"		"	S.S.W.	2		30.19	70	69	62		"	"	3	"	
4	"		"	"	1		30.19	70	70	63		"	"	5	"	
5	"		"	"	1		30.17	70	69	63		"	"	5	"	
6	"		"	"	1		30.15	70	69	63		"	"	5	"	
7	"		S	S by W	2		30.14	70	69	63		"	"	4	"	
8	"		"	"	2		30.14	70	69	63		"	"	3	"	
9	"		"	"	3		30.14	68	65	62		"	"	4	"	
10	"		"	"	2-4		30.13	68	65	62		bcq	"	4	"	
11	"		"	"	4-5		30.13	66	65	62		"	"	6	"	
Mid.	"		S.W. by S.	S.W. by S.	4-5		30.10	66	65	59		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Saturday May 17, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and calm, slightly misty about the horizon. Bright moonlight, Aneroid barometer 30.34.

W. H. [illegible]
comd Lieut

4 to 8 A.M. Weather clear and pleasant, Calm, Barometer rising. Aneroid at end of watch 30.40.

[illegible] Lieut

8 A.M to Meridian, Cloudy and pleasant. Light airs from N.W first hour, from S E other three hours. At 9.30 went to quarters and inspected bags. Placed Louis Deistel (Sea) Thos J. Wynne (Ck), and Wm Toole, (D.C.) in double irons for seven days for getting drunk on duty by order of Comdg Officer. Aneroid 30.32. Captain of "Sapphire" paid a visit to ship. Benjn Campbell F.H. was brought on board by police, and a reward of ten dollars was paid for him.

Ro. Bitler Ensign

Meridian to 4 P.M. Pleasant weather. Light breeze from S by E. to S.S.W. The U.S. Minister to Japan and the U.S Consul General at Kanagawa paid an official visit to the ship. Aneroid barometer 30.32.

W. H. [illegible]
comd Lieut

4 to 8 P.M. Cloudy and pleasant, Light airs to light breeze from S S W and S by W. Aneroid barometer 30.31.

Ro. Bitler Ensign

8 P.M to Midnight, Pleasant weather. Gentle breeze from S by W. freshening latter part. Aneroid barometer 30.30.

W. H. [illegible]
comd Lieut

Moon l mid
Dec. 10° 26' 48" S.
Phase. Last quarter.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Yokohama Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			S.S.W	S.S.W	4-5		30.07	66	65	59		bcq	Cir Cum	4	b	
2	"		"	"	4-5		30.05	66	65	59		"	"	5	"	
3	"		"	"	4-5		30.02	66	65	60		"	"	5	"	
4	"		"	"	4-5		30.00	66	65	60		"	"	5	"	
5	"		"	"	4-5		30.00	66	65	60		"	"	4	"	
6	"		"	"	4-5		29.98	66	65	60		"	"	3	"	
7	"		"	"	4-5		29.97	66	65	60		"	"	3	"	
8	"		"	"	4-5		29.96	66	65	60		"	"	3	"	
9	"		"	"	4-5		29.96	68	68	63		"	Cir Cum Cir Strat	4	a.	
10	"		"	"	4-5		29.94	69	69	64		"	"	6	"	
11	"		"	"	4-5		29.94	69	70	64		"	"	5	"	
Noon.	"		"	"	4-5		29.92	70	71	65		"	"	5	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	° ′ ″	
Longitude by D. R. at Noon	° ′ ″	
Latitude by Observations at Noon ☉	° ′ ″	
Longitude by Chronometer from Forenoon Observations ☉	° ′ ″	
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	° ′ ″	
Variation of the Compass by Azimuth ☉ observed at	° ′ ″	
Water expended during the preceding 24 hours	345	gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for use at Noon	1900	"
Coal consumed during the preceding 24 hours	tons 840	lbs.
Coal remaining on hand at Noon	776 " 160	"

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		S.S.W	S.S.W.	5-6		29.88	71	70	65		bcq	Cir Cum	5	b	
2	"		"	"	5-6		29.87	71	70	66		"	Cum & Cir Cum	4	"	
3	"		"	"	5-6		29.85	71	69	67		"	"	1	"	
4	"		"	"	5-6		29.83	71	69	67		"	"	2	"	
5	"		"	"	5-7		29.80	71	70	68		"	"	5	R	
6	"		"	"	5-7		29.77	71	70	68		"	"	5	"	
7	"		"	"	5-7		29.75	71	69	67		"	Cir Cum Cu Strat	4	"	
8	"		"	"	5-7		29.75	72	69	67		"	"	4	"	
9	"		"	"	5-7		29.75	71	69	68		"	Cir Cum Cum	6	"	
10	"		"	"	5-7		29.75	71	69	68		"	"	3	"	
11	"		"	"	5-7		29.72	71	70	68		"	"	5	"	
Mid.	"		"	"	5-7		29.68	71	70	68		"	"	5	"	

Longitude by Chronometer from Afternoon Observations ☉	° ′ ″
Longitude by Chronometer from Observations *	° ′ ″
Variation of the Compass by Amplitude observed at sunset	° ′ ″
Variation of the Compass by at	° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Sunday May 18., 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, Moderate breeze from S.S.W. Aneroid 30.32.

Wainwright Kellogg
Lieut

4 to 8 A.M. Cloudy weather. Moderate to fresh breeze from S.S.W. with occasional strong puffs. Japanese gunboat came in, and anchored. Aneroid barometer 30.18.

R.O. Bitler Ensign

8 A.M to Meridian, Clear and pleasant, Fresh breeze from S.S.W. Barometer steady. Went to quarters at 9.30: Commanding Officer inspected ship and crew. The following named men, absent without leave: W. Lutz. (1st Sergt.) W. J. Bennett. (Pay Yeo) A. McLean (QrMr) R. Speer. (Lds.) W. F. Dains. (OS.) S. S. Lawrence (OS.) S. P. Smallfield. (OS) E. B. Winslow. (OS) and John R. Cobaw. (OS); sent ashore a descriptive list and offer of $10. reward each for their apprehension and delivery on board. Sent an officer to board the Japanese gunboat "Saiki" to tender the usual courtesies and received an official visit from her returning thanks. By order of Comdg Officer released Wm Winchester (CBM) from confinement. Aneroid barometer 30.13.

W.M. Irwin Lieut

Meridian to 4 P.M. Cloudy greater part of watch. Strong breeze with occasional strong puffs from S.S.W. O & O Str Arabic arrived from San Francisco. Aneroid 30.04.

Wainwright Kellogg
Lieut

4 to 8 P.M. Cloudy, Strong winds with frequent squalls from S.S.W. Rough sea. At 5.30 sent down topgallant yards and housed topgallant masts. Wm Lutz (1st Sergt) and E. B. Winslow. (OS) returned eleven hours overtime. Received a mail from the United States. At 4.15 veered to 60 fathoms on port chain. Aneroid barometer 29.98.

W.M. Irwin Lieut

8 P.M to Midnight. Cloudy. Blowing a moderate gale with frequent very strong squalls from S.S.W. Aneroid falling slowly. 29.91 at end of watch.

Wainwright Kellogg
Lieut

Moon L mid. Examined and found to be correct.
Dec. 6° 43' 44" S.
Phase. Last quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Yokohama Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			S S W	S S W	5-7		29.62	71	70	68		bcql	Cum & Cir Cum	5	R	
2	"		"	"	5-7		29.56	71	70	68		bcq	"	7	"	
3	"		"	"	5-7		29.51	71	70	68		"	Cir Cum & Nimb	3	"	
4	"		"	"	5-7		29.50	71	70	68		bcqp.	"	2	"	
5	"		"	"	5-6		29.55	69	68	63		bcq	Cir Cum Str Nimb	3	M	
6	"		"	"	5-6		29.60	69	68	63		"	"	3	"	
7	"		"	"	5-6		29.61	68	67	62		"	"	3	"	
8	"		"	"	5-6		29.64	68	68	60		"	"	2	"	
9	"		"	"	4-5		29.65	68	68	60		"	"	3	"	
10	"		"	"	5-6		29.60	68	68	60		"	"	3	"	
11	"		"	"	5-6		29.60	69	68	60		"	"	4	"	
Noon.	"		"	"	6-7		29.60	69	68	60		"	"	2	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1600 "

Coal consumed during the preceding 24 hours tons 840 lbs.

Coal remaining on hand at Noon 115 " 1560 "

P. M.																
1	"		S. S. W	S. S. W	4-6		29.61	68	67	55		bcq	Cir Cum Str Nimb	3	M	
2	"		"	"	4-6		29.63	67	66	54		"	"	2	"	
3	"		"	"	3-5		29.66	66	65	54		"	"	2	"	
4	"		"	"	3-5		29.66	66	64	54		"	Cum & Cir Cum	3	"	
5	"		"	"	2-4		29.70	66	64	55		"	"	1	S	
6	"		S. W.	S. W	3		29.74	66	65	55		bc	"	3	"	
7	"		S.	S×W.	3		29.78	66	64	55		"	Cir Cum Strat	4	"	
8	"		"	"	2		29.80	67	64	55		"	"	6	"	
9	"		"	E×N.	4-5		29.82	67	62	56		bcq	"	7	"	
10	"		"	South	3-4		29.84	67	63	56		"	Cir Cum	7	"	
11	"		"	"	3		29.86	67	63	56		bc	"	7	"	
Mid.	"		"	"	3		29.87	67	63	56		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Monday May 19th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Threatening weather. Moderate gale from S.S.W. with passing showers last hour of watch. Falling barometer. Sea moderate. Aneroid at 4 A.M. 29.80.

W. C. P. Muir Ensign

4 to 8 A.M. Generally cloudy but clearing latter part with a rising barometer. Wind fresh and squally from S.S.W. Alex. McLean (OS) Wm. F. Davis (OS) J. P. Smallfield (OS) S. B. Lawrence (OS) J. R. Coban (OS) and R. Spurr (Lds) returned to the ship 23 hours overtime. Aneroid bar. 29.87

W. M. Irwin Lieut

8 A.M. to Meridian. Cloudy. Strong breeze with fresh squalls from S.S.W. At 9.30 mustered at quarters. Had battalion drill, and afterwards divisional drill. Breeze gradually freshening latter part of watch. By order of Comdg Officer discharged Ah Long (CC) from this ship and from the Naval Service and shipped K. Suzuki as landsmen for the cruise, special service. Wm. J. Bennett (Pay Yeo) was brought off from shore by a policeman and a reward of $10.00 paid for his apprehension. Aneroid low and falling slowly. 29.83 at end of watch.

Wainwright Kellogg

WK

Lieut

Meridian to 4 P.M. Squally weather. Moderate to fresh winds from S.S.W. Rising barometer. Hoisted in steam launch. Brought to starboard cable, got up starboard anchor at 3.55. Aneroid at 4 P.M. 29.88. Enlisted as landsman for special service for cruise Jussa Yoyama and at his own request discharged from the Naval service Ah Pang. (Lds)

W. C. P. Muir Ensign.

4 to 8 P.M. Hazy. Pleasant. Light breeze from S.W. to South. At 4.45 mustered at quarters and secured battery for sea. Fidded topgallant masts. Engaged during watch making preparations for sea. Aneroid 30.34.

Wainwright Kellogg

WK

Lieut

8 P.M. to Midnight. Fair and cool. Moderate south winds. Barometer rising. By order of Commanding Officer released from confinement Thos. J. Wynne (1 CH) and Wm. Poole (2 CP). Aneroid at end of watch

W. C. P. Muir

Ensign.

Moon at mid

Dec. 2°34'33" S.

Phase. Last quarter.

Examined and found to be correct.

W. T. Parker

Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Yokohama Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
1	Anchored		S.S.W	West	2		29.90	62	59	55		bc	Cir Cum & Cum	7	S	
2	"		"	"	2		29.92	61	59	54		"	"	8	"	
3	"		"	"	2		29.92	59	58	54		"	"	6	"	
4	"		"	"	2		29.92	58	57	53		"	"	7	"	
5	"		"	"	2		29.94	58	57	53		"	"	7	"	
6	Standing down Yeddo Bay			NW	1		29.96	58	57	53		"	"	7	"	
7	7	0	Various Courses	"	1		29.98	58	57	55	59	bcz	"	7	"	
8	8	8	"	"	1		30.00	59	58	55	59	"	"	8	"	
9	4 4	5 2	SW×S. SW½W.	"	2		30.00	60	59	56	60	bc	Cir	8	"	
10	8	6	"	S.E.	1		30.00	62	61	58	60	"	"	8	"	
11	8	4	"	"	2		30.00	62	63	59	60	"	"	8	"	
Noon.	7	0	"	S.W	5		30.00	64	66	60	60	"	"	8	"	

Distance run by Log since preceding Noon 48 knots 5 tenths ~~fathoms.~~

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 330 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1270 "

Coal consumed during the preceding 24 hours 7 tons 1880 lbs.

Coal remaining on hand at Noon 107 " 1920 "

P. M.																
1	6	8	SW×W	SW×W	5		30.00	66	66	59	62	bcq.	Cir	8	S	
2	6	4	"	"	4		29.99	68	66	59	62	"	"	5	M	
3	6	0	"	WSW.	3		29.99	68	66	59	62	"	Cir Cum	6	"	
4	4 2	0 0	SW×W½W. W¼S.	"	4		30.00	70	66	59	62	"	"	4	"	
5	6	2	"	"	4		30.00	68	66	59	63	"	Cum & Cir Cum	3	"	
6	6	4	"	S.W	4		30.01	67	65	59	63	"	"	2	"	
7	7	0	"	"	4		30.02	66	64	59	63	"	"	3	"	
8	7	2	"	"	4		30.04	65	63	59	63	"	Cir Cum & Strat	4	"	
9	7	5	"	"	4		30.04	65	63	60	63	"	Cir	9	S	
10	7	5	"	"	4		30.05	65	64	60	63	"	"	7	"	
11	7	5	"	"	3		30.06	65	63	61	63	"	"	6	"	
Mid.	7	5	"	"	2		30.06	65	64	62	63	"	"	6	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Tuesday May 20th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant, Light breeze from West, Barometer steady. Started fires under four starboard boilers and under two after port ones at 2.40. Received on board fresh provisions for crew. Aneroid barometer 30.15.

Karl Rohrer Lieut

4 to 8 A.M. Slightly hazy. Pleasant, Light breeze from W to N.W. At 5^{20} crossed topgallant and royal yards, and bent gear. At 5^{35} steam reported ready. At 5^{35} called "all hands" hove up port anchor, and at 6.05 started ahead and stood down Yeddo Bay. Steering various courses from S.S.E to S.W. by S. At 7.40 passed Kuwan-saki light, Aneroid 30.24. Ship's heading S.W. by S. at end of watch. By order of Commanding Officer released Louis Deistel. (Sea) from confinement.

Wainwright Kellogg Lieut

8 A.M. to Meridian. Weather clear and pleasant, Light to fresh breeze from N.W. to S.E. Barometer steady. Under steam, pressure 35 lbs, and making 56 revolutions. At 9.15 mustered and inspected at quarters then exercised at great guns. Robt. W. Allen, (O.S.) is declared a deserter from this date by order of Captain. At noon changed course to S.W. by W. by order of Captain: the patent log showing 92 knots. Sent down light yards and braced the yards with the port braces. At noon Oosima ~~was~~ on port beam. Aneroid barometer 30.21.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather clear with moderate breeze from S^{d} and W^{d}. Barometer steady. Sighted Rock Island Light-house at 2.15, bearing W.S.W. Changed course at 3. to S.W. by W. ½ W. and at 3.45 to W. ¼ S. At end of watch Rock Island Lighthouse bore North, distant about 2½ miles. Aneroid at end of watch 30.20. Patent log 18. Steam 43. Revs. 44

C. P. Rees Lieut

4 to 6 P.M. Cloudy and cool. Moderate breeze from W.S.W. hauling to S.W. Moderate sea. Mustered at quarters at 4.45. Iro-o-zaki lighthouse bore abeam N½W. At 5^{56} set fore and aft sail. Steam 40 lbs. Revolutions 46. Aneroid barometer 30.25.

W. M. Irwin Lieut

6 to 8 P.M. Slightly hazy. Pleasant. Light breeze from S.W. Moderate sea. At 7.35 sighted Omai-saki light, bearing N.W. at end of watch it bore N.W. by W. Steaming under six boilers. Steam 42. Revs 45. Aneroid 30.27.

Wainwright Kellogg Lieut

8 P.M. to Midnight. Weather pleasant. Hazy about the horizon. Light to moderate breeze from S.W. Barometer rising. Under steam and fore and aft sail. Steam pressure 47 lbs, and 47 revolutions. At 9.30 Omai-saki light bore abeam, and at 11.45 lost sight of it on starboard quarter bearing about N.E. by E. ¼ E. Aneroid barometer 30.30.

Karl Rohrer, Lieut

Moon (mid.) Examined and found to be correct.
Dec. 1° 51' 04" N.
Phase. Last quarter.

N. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Making passage from Yokohama to Kobe, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	7	0	W½S.	S.W.	1-2		30.08	67	65	63	60	bcz	Cir	8	S.	Fore and aft sail
2	7	4	"	N.W.	1-2		30.07	67	65	63	60	"	"	8	"	
3	7	5	"	N.E.	0-1		30.07	67	65	63	60	"	"	9	"	Took in f & a. sail
4	7	5	"	"	0-1		30.07	67	65	63	60	"	"	9	"	
5	8	0	"	S.E	2		30.09	65	64	62	66	"	"	7	"	Set f & a sail
6	8	6	SW½W.	"	3		30.11	64	63	61	66	"	Cum & Cir Cum	3	"	" f. sail & f. topsail
7	8	5	S.W. by W	S.S.E	3		30.12	64	64	60	66	"	"	2	"	" M. topsail & topgallsails
8	8	4	"	"	3		30.13	65	65	61	66	bcm	"	2	"	" F. topgallsail
9	9	6	"	E.	3		30.13	66	65	61	66	ocm	"	0	"	Took in f. topt stay s.
10	8	0	"	"	3		30.13	66	65	61	66	"	"	0	"	" " Spanker & M. topsail
11	8	4	"	N.E	3		30.13	67	66	63	66	"	"	0	"	
Noon.	10	0	"	"	3		30.12	67	66	63	66	"	"	0	"	

Distance run by Log since preceding Noon *180* knots *9* ~~fathoms.~~ *tenths*

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *330* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *940* "

Coal consumed during the preceding 24 hours *18* tons *1440* lbs.

Coal remaining on hand at Noon *89* " *490* "

P. M.	4 4	5 0	SW×W SW×W½W													
1	0	8	S.W.	NNE	4		30.09	66	65	61	66	ocz	Cir Cum & Cum	0	S	Set f. topt stay s., m. topsail
2	8 1	0 6	W.S.W.	"	5		30.05	64	64	61	67	"	"	0	"	and spanker.
3	5 4	5 6	W.N.W.	"	5		30.01	65	65	61	67	"	"	0	"	Took in topgalls & f. jib
4	7 2	5 0	N.W.	N.E.	4		30.00	67	67	61	67	bcz	"	1	"	" " Topsails & spanker
5	8	8	"	"	3		30.00	68	69	61	67	"	"	2	"	Set spanker
6	1 6	5 5	NW½N.	NNE.	3		29.99	69	69	61	67	"	"	1	"	Took in f. topt stay s.
7	8	4	N.W.	NW	3		29.[illegible]	69	69	61	67	"	Cir Cum Cir Str	1	"	Took in all sail
8	8	4	NW½N.	"	2		29.99	69	69	61	67	"	"	2	"	
9	4 4	0 0	N.	"	2		29.98	68	67	61	67	"	"	4	"	
10	7	0	"	NNE	2		29.98	68	65	62	67	"	Cir Cum	8	"	
11	6	0	"	"	2		29.98	67	64	61	67	"	"	8	"	
Mid.	6	0	N&E	"	2		29.96	67	64	61	67	"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Wednesday, May 21st, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear, and pleasant with light haze. Light variable airs and calms. Barometer steady. Took in fore and aft sail at 3. Aneroid at end of watch 30.29. Patent log 104.8. Steam 44. Revs 45.

C. P. Rees Lieut

4 to 8 A.M. Cloudy, misty last hour. Gentle breeze from S. E. hauling to E S E and freshening. At 5^{00} changed course to S W ½ W, patent log 12.9. Set fore and aft sail. At 5^{55} set foresail and fore topsail. At 6.57 changed course to S W by W. patent log reading 22.5. Sent up topgallant yards, and set main topsail, and fore and main topgallantsails. Sighted land on starboard beam, about 6.30. Steam 55 lbs, Revolutions 48. Aneroid barometer 30.31. Patent log at end of watch 41.2.

W. M. Irwin Lieut

8 A.M. to Meridian. Hazy, Cloudy, Pleasant, Light breeze from East, gradually hauling to N. E. at end of watch. Smooth sea. Exercised all gun divisions at great guns. Instructed signal class. At 11.45 sighted land bearing W by S. Land in sight on starboard beam. At 9.50 took in main topsail and spanker. Steaming under six boilers. Revs. 48. Steam 48. Aneroid 30.28. Patent log at end of watch 77.8.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Weather pleasant though cloudy. Moderate to fresh breeze from N N E to N E. Barometer falling. Under steam and sail. Steam pressure 53 lbs and making 51.8 revolutions. Land in sight on starboard bow, beam and quarter during watch. By order of Captain changed course to S W & W ½ W at 12.20, to S. W at 12.55, to W S W at 1.53, to W N W at 2.30, and to N W at 3.47. At end of watch patent log read 16.3. Aneroid barometer 30.18.

Karl Rohrer, Lieut

4 to 6. P.M. Weather clear, and pleasant. Wind variable. Barometer falling. Took in and furled fore topsail at 4.25, and set flying jib. At 5^{00} changed course to N W ½ N. At 5.15 took in and furled all sails. Set fore and aft sail at 6.00. Changed course at 6. to N. W. Running along parallel to land. Mustered at quarters at 4.45. Aneroid at end of watch 30.18. Pat log 33.6. Steam 54. Revs 50.

C. P. Rees Lieut

6 to 8. P.M. Pleasant weather, slighty hazy. Light breeze from N. W. Smooth sea. At 6^{05} set fore and aft sail, and at 6^{25} took it in. At 7.00 changed course to N W ½ N. patent log reading 42.4. At 7.56 changed course to N by W ½ W, patent log reading 50.2. Steam 53.4. Revs 49.2. Aneroid barometer 30.19.

W. M. Irwin Lieut

8 P.M. to Midnight. Slightly hazy. Pleasant, Light breeze from N N E. Smooth sea. At 9.30 sighted Tomangai light bearing N N E. At 12 Tomangai Light bore East. At 12 entered the Inland sea. Steam 50. Revs 48. Patent log 80.8. Aneroid 30.18.

Wainwright Kellogg Lieut

Moon's mid Examined and found to be correct.
Dec. 6° 19' 21." N.
Phase. Last quarter.

W. L. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Making passage from Yokohama to Kobe. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	*Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	7	0	N E & N.	N N E.	4		29.95	66	62	60	65	bc	cis	9	S.	
2	7	0	"	"	4		29.94	65	62	58	65	"	"	9	"	
3	6	5	"	"	4		29.92	65	62	58	63	"	"	9	"	
4	4	0	"	N E.	1		29.92	65	63	59	63	"	"	9	"	
5	Anchored		"	"	1		29.92	65	63	59	63	bcz	"	5	"	
6	"		S. W & W.	"	0-1		29.94	65	63	58		"	"	6	"	
7	"		S.	Calm	0		29.94	67	63	58		"	"	5	"	
8	"		"	"	0		29.94	67	63	58		"	"	5	"	
9	"		S. S. W.	S. S. E.	1		29.90	65	63	59		"	"	9	"	
10	"		S. W.	S. W.	1		29.90	67	65	60		"	"	9	"	
11	"		"	E N E	1		29.90	67	65	60		"	"	9	"	
Noon.	"		"	"	1		29.86	67	67	63		"	"	9	"	

Distance run by Log since preceding Noon 123 knots 5 tenths ~~fathoms.~~

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ☉ ° ' "

Longitude by Chronometer from Forenoon Observations ☉ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ☉ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 640 "

Coal consumed during the preceding 24 hours 12 tons 910 lbs.

Coal remaining on hand at Noon 76 " 1810 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	*Record of the sail the vessel is under at end of watch.
P. M.																
1	"		S. W	S. W	2		29.83	69	70	63		bcz	Ci & Ci Cum	7	"	
2	"		"	"	2		29.80	68	69	62		"	"	7	"	
3	"		"	"	2		29.80	68	68	62		"	"	7	"	
4	"		W.	"	2		29.78	67	67	63		"	"	6	"	
5	"		N. N. W.	"	2		29.76	67	69	62		"	"	7	"	
6	"		"	Variable	0-1		29.76	68	69	64		"	"	5	"	
7	"		N E	"	0-1		29.76	69	70	61		"	Ci Cum & strat	4	"	
8	"		"	"	0-1		29.76	69	70	63		"	"	5	"	
9	"		"	"	0-1		29.76	69	70	63		"	"	5	"	
10	"		E S E	S.	1		29.76	67	68	63		"	"	6	"	
11	"		"	"	1		29.75	67	68	63		ocz	"	0	"	
Mid.	"		"	"	1		29.75	67	67	63		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;

Thursday. May 22d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light to moderate breeze from N.E. to N.N.E. Under steam, pressure 43 lbs, and making 46 revolutions. At 2.25 lost sight of Tomangai light bearing about S.S.W. ½ W. At 2^{50} sighted Kobe light on port bow. At 3^{35} stopped the engine, Kobe light being abeam. Aneroid barometer 30.12.

Karl Rohrer, KR Lieut

4 to 8 A.M. Weather clear and pleasant. Hazy. Light airs from N^{d} and E^{d}. Barometer steady. At 4.20 started ahead, one bell, N N W ½ W. under direction of Commanding Officer and stood in for Kobe harbor. Came to, at 4^{56} with port anchor in 8¾ fathoms water and veered to 45 fathoms chain. Draft of water 13 feet for'd, aft 15 ft 8 in. Hauled fires. Aneroid at end of watch 30.12. Bearings from anchorage: Kobe Light SSW¼W; Tower W x S. Ships Head NNE.

Lieut

8 A.M. to Meridian. Clear and pleasant. Light variable airs. At 9.30 went to quarters, inspected hammocks and bedding, and triced them up in rigging to air. U.S. Consul paid an official visit to ship and was received with usual honors. Sent an officer on shore to pay an official visit on U.S. Consul. Aneroid barometer 30.06. Unbent flying jib, fore topmast staysail, main trysail, and royals and stowed them below.

R.O. Bitler Ensign.

Meridian to 4 P.M. Pleasant weather. Gentle breeze from S.S.W. Barometer steady. Aneroid barometer 29.98. Went to quarters at 1.00 and served out clean hammocks.

W.M. Irwin
Lieut

4 to 8 P.M. Weather hazy and pleasant. Calm and light variable airs. At 4.45 mustered at quarters. At 5^{30} sent down topgallant yards and topgallant masts, and unbent topgallant sails. Hoisted boiler in steam cutter. Aneroid barometer 29.98.

R.O. Bitler Ensign

8 P.M. to Midnight. Cloudy and hazy, overcast last hour. Light airs from South. Aneroid barometer 29.98.

W.M. Irwin
Lieut

Moon 1 mid. Examined and found to be correct.
Dec. 10° 30′ 01″ N.
Phase. Last quarter.

W. H. Perkins
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Kobe Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			S.S.W	Calm	0		29.75	65	67	62		bcz	Cum & Cir Cum	4	S	
2	″		″	″	0		29.72	65	67	62		″	″	2	″	
3	″		″	″	0		29.71	64	65	61		ocz	″	0	″	
4	″		″	″	0		29.71	64	65	61		″	″	0	″	
5	″		″	Variable	0-1		29.70	63	66	61		bcz	Cir Cum & strat	1	″	
6	″		E.N.E.	″	0-1		29.69	64	65	61		″	″	1	″	
7	″		″	″	0-1		29.69	64	64	61		″	″	1	—	
8	″		S.	″	0-1		29.69	64	64	61		″	″	1	″	
9	″		″	Calm	0		29.69	65	65	61		″	″	2	″	
10	″		″	″	0		29.69	65	65	61		″	″	1	″	
11	″		S.W.	S×W	2		29.68	66	66	61		ocz	″	0	″	
Noon.	″		″	″	2		29.66	67	67	62		″	″	0	″	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 320 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 320 "

Coal consumed during the preceding 24 hours tons 1060 lbs.

Coal remaining on hand at Noon 76 " 750 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	″		W.S.W	S.S.W	1		29.64	67	67	63		ocz	Cum & Cir Cum	0	″	
2	″		″	″	1		29.62	68	68	62		bcz	″	1	″	
3	″		″	″	1		29.60	69	68	63		ocz	″	0	″	
4	″		″	″	1		29.59	69	68	63		bcz	″	2	″	
5	″		S.	″	2		29.58	68	67	62		″	″	1	″	
6	″		″	″	2		29.58	67	67	62		″	″	2	″	
7	″		N.N.E	″	2		29.58	67	68	63		″	″	2	″	
8	″		″	″	2		29.58	67	68	63		″	″	1	″	
9	″		N×W	S.W	2		29.58	69	68	65		bcz	″	5	″	
10	″		N.W	″	2		29.57	69	67	64		″	″	5	″	
11	″		W	″	2		29.57	69	67	64		″	″	3	″	
Mid.	″		″	″	2		29.58	67	66	63		″	″	5	″	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Friday. May 23d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Hazy. Pleasant, Calm, Aneroid 29.94

Wainwright Kellogg Lieut

4 to 8 A.M. Cloudy and hazy. Drizzling rain last hour. Calm and light variable airs. At 7.15 sent up topgallant masts and topgallant yards. Aneroid barometer 29.92.

R. O. Bitler Ensign

8 A.M. to Meridian. Cloudy and hazy. Calm first part, light breeze from Sd and Wd remainder of watch. Barometer falling. At 9.30 called all hands and cleared ship for action followed by general quarters, secured at 9.50. Lost overboard one Remington Pistol. Hoisted out both launches and in securing hoisted in sailing launch. Commanding Officer left the ship to pay official visits. John McCann '2 CF' was placed under sentry's charge to await investigation by Commanding Officer. Aneroid barometer 29.86

W. M. Irwin Lieut

Meridian to 4 P.M. Cloudy. Hazy. Pleasant. Light breeze from S.S.W. Aneroid low, and falling slowly 29.81, at end of watch

Wainwright Kellogg Lieut

4 to 8 P.M. Cloudy and cool. Hazy. Light breeze from S.S.W. Mustered at quarters at 4.45. Started distilling at 7.55. Made preparations for dressing ship in the morning. Aneroid barometer 29.82

W. M. Irwin Lieut

8 P.M. to Midnight. Cloudy. Hazy. Pleasant, Light breeze from S.W. Barometer low, rising slowly. Aneroid 29.82 Distilling

Wainwright Kellogg Lieut

Moon's mid Examined and found to be correct.
Dec. 14° 12' 10" N.
Phase, Last quarter.

W. H. Parker
Lieut Navigator.

LOG of the UNITED STATES *Steamer Essex*, *3d* Rate, *6* Guns,

Kobe. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			S.W.	S.W.	1		29.56	67	66	63		bclz	Cum & Cir Cum	5	S	
2	"		W.S.W.	W.S.W.	2		29.56	67	65	60		"	"	5	"	
3	"		W.	W.	3-5		29.55	66	63	56		bcqz	Cir Cum & Nimb	4	"	
4	"		W × N	W × N.	3-5		29.55	65	63	56		"	"	5	"	
5	"		N.W.	N.W. × W.	3-5		29.58	65	62	54		"	"	6	"	
6	"		"	"	2-4		29.60	64	60	54		bcq	"	7	"	
7	"		W × N.	W × N.	2-4		29.62	63	60	54		"	Cum, Cir Cum Strat & Nimb	3	"	
8	"		W.	W × S.	2-4		29.62	62	60	54		"	"	4	"	
9	"		"	W.N.W.	3-5		29.64	63	61	54		"	"	3	"	
10	"		"	S.W.	4-5		29.64	63	61	54		"	Cir T Cum	7	"	
11	"		"	"	4-5		29.65	63	63	52		"	"	6	"	
Noon.	"		"	W × S.	4-5		29.65	64	63	53		"	"	7	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *320* gallons.

Water *distilled* during the preceding 24 hours *1800* "

Water remaining on hand fit for use at Noon *1800* "

Coal consumed during the preceding 24 hours *2* tons *870* lbs.

Coal remaining on hand at Noon *73* " *2120* "

P. M.																
1	"		W	W.	4-3		29.66	65	64	58		bcq	Cir Cum & Cum	5	"	
2	"		"	"	4-3		29.67	66	63	52		"	"	4	"	
3	"		"	"	4-5		29.68	66	63	52		bcqd	Cir Cum & Nimb	2	"	
4	"		"	W × S.	4-5		29.68	66	63	52		bcq	"	3	"	
5	"		S.S.W.	S.S.W.	4-5		29.70	66	63	54		"	"	4	"	
6	"		W.	W × S.	4-5		29.70	66	63	54		"	"	7	"	
7	"		"	"	4-5		29.73	65	63	53		"	"	8	"	
8	"		N.W.	"	2		29.76	67	63	53		bc	Cir Strat	8	"	
9	"		"	"	2		29.80	66	60	57		"	"	9	"	
10	"		"	W × N	1		29.82	63	59	50		"	"	9	"	
11	"		W × N.	"	1		29.84	62	58	50		"	"	8	"	
Mid.	"		"	"	2		29.84	62	58	50		"	Cir Cum & Strat	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Saturday. May 24th, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Fair first half of watch, cloudy latter part. Light winds from S.W. increasing to moderate breezes and hauling to westward, at times blowing fresh in squalls. Low and falling barometer. Aneroid at end of watch 29.81. Distilling

W. C. P. Muir Ensign

4 to 8 A.M. Cloudy and cool. Moderate breeze with frequent strong puffs from N.W by W. hauling to W by S. Barometer rising. At 8 am dressed ship with British flag at the main in honor of the Queen's birthday. A large American merchant ship came in and anchored. Aneroid barometer 29.90 Received in Pay Department for use of ships company 140 lbs. fresh beef 112 lbs vegetables and 112 lbs bread.

W. M. Irwin
Irwin Lieut

8 A.M. to Meridian. Clear and pleasant. At 9 the wind freshened to strong breeze from S.W. At 9.30 mustered at quarters. By order of Commanding Officer, John McCann, (2 C.F.) was placed in solitary confinement for five days on bread and water for disobedience and insolence to Engineer of watch. Boarded the American ship Kennebec from Philadelphia. Received an official visit from the Governor of the province of Kobe. Aneroid 29.90. Hauled down rainbow, on account of strong breeze

Wainwright Kellogg Lieut

Meridian to 4 P.M. Fair with moderate to fresh winds from West. Barometer rising slowly. Aneroid at end of watch 29.93

W. C. P. Muir Ensign

4 to 8 P.M. Clear and pleasant. Light to moderate breeze from W by S. At 4.45 mustered at quarters. Distilling. Aneroid 30.00.

Wainwright Kellogg Lieut

8 P.M. to Midnight. Clear and cool. Light winds from W by N. Barometer rising slowly. At 8 stopped distilling, hauled fires. Aneroid barometer 30.00

W. C. P. Muir Ensign

Moon l mid Examined and found to be correct.
Dec 16° 56' 38" N.
Phase, New moon.

T. S. Park
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Kobe Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
	Anchored		W×S.	WSW.	2		29.85	62	58	52		bcz	cir	9	S	
2	"		"	"	2		29.85	62	58	52		"	"	9	"	
3	"		WNW.	"	1		29.85	62	58	52		"	"	9	"	
4	"		"	"	1		29.87	62	58	52		"	Cir. strat	9	"	
5	"		NW×W.	NW×W.	1		29.90	60	56	57		"	"	9	"	
6	"		"	"	1		29.93	61	56	49		"	"	9	"	
7	"		"	"	1		29.93	62	57	50		"	"	9	"	
8	"		"	"	2		29.93	62	57	50		"	"	9	"	
9	"		WNW.	WSW.	3		29.96	62	60	53		"	Cir	9	"	
10	"		"	"	3		29.96	63	62	54		"	"	9	"	
11	"		SW×S.	S.W.	3		29.98	63	62	55		"	cir & Cir Cum	7	"	
Noon.	"		"	"	2		29.98	63	63	55		"	"	8	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 1400 "

Water remaining on hand fit for use at Noon 2900 "

Coal consumed during the preceding 24 hours 1 tons 360 lbs.

Coal remaining on hand at Noon 72 " 1760 "

P. M.																
1	"		WSW	S.W.	3		29.98	65	65	55		bc	Cir Cum	8	"	
2	"		"	"	4		29.98	66	66	55		"	"	8	"	
3	"		S.W.	"	4		29.98	66	66	57		"	"	8	"	
4	"		"	"	4		29.98	67	65	56		"	"	8	"	
5	"		"	"	3		29.98	69	66	57		"	"	8	"	
6	"		"	"	3		29.98	69	66	57		"	Cir Cum & strat	7	"	
7	"		"	"	2		29.98	69	66	57		"	"	6	"	
8	"		"	"	1		29.98	69	66	57		"	"	6	"	
9	"		NW.	W.	1		30.00	68	63	57		"	Cir Cum	8	"	
10	"		"	"	1		30.02	68	63	57		"	"	7	"	
11	"		N.	NW.	1		30.02	67	63	57		"	"	8	"	
Mid.	"		"	"	1		30.02	66	63	57		"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday May 25, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant, Light breeze from W.S.W. Barometer steady. Aneroid barometer 30.11.

Karl Rohrer Lieut

4 to 8 A.M. Clear and pleasant. Light breeze from N.W. by W. Aneroid 30.18

Wainwright Kellogg Lieut

8 A.M. to Meridian. Clear bright and pleasant. Gentle winds from W.S.W. hauling to S.W. latter half of watch. Barometer rising slowly. At 9.30 Commanding Officer inspected ship and crew at quarters. Aneroid at end of watch 30.18.

W. A. Mair Ensign

Meridian to 4 P.M. Weather clear and pleasant. Gentle to moderate breeze from S.W. Barometer steady. The mail steamer from Shanghai came in and took her buoy. Aneroid barometer 30.16

Karl Rohrer Lieut

4 to 8 P.M. Weather clear and pleasant with light S.W. winds. Barometer steady. Aneroid at end of watch 30.18.

W. A. Mair Ensign

8 P.M. to Midnight, Weather clear and pleasant. Light breeze from West, to N.W. Barometer steady. Aneroid barometer 30.21.

Karl Rohrer, Lieut

Moon l mid Examined and found to be correct.
Dec 18° 30' 09 N.
Phase New moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Kobe. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			E × N.	N. E.	0-1		30.02	66	62	58		bc	Ci cum	7	S	
2	"		"	"	0-1		30.02	64	60	56		"	"	7	"	
3	"		"	Calm	0		30.02	64	60	56		"	"	7	"	
4	"		"	"	0		30.02	64	60	56		"	Ci strat	9	"	
5	"		"	"	0		30.02	64	60	56		"	"	8	"	
6	"		"	"	0		30.02	64	60	56		"	Ci cum	7	"	
7	"		"	"	0		30.03	64	60	56		"	"	7	"	
8	"		"	"	0		30.03	64	60	56		"	"	7	"	
9	"		N E.	N E.	1		30.03	64	65	60		bcz	"	9	"	
10	"		"	"	1		30.03	64	65	60		"	"	9	"	
11	"		"	S	1		30.03	66	67	62		"	"	9	"	
Noon.	"		"	"	1		30.03	67	67	62		"	"	9	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2600 "

Coal consumed during the preceding 24 hours tons 840 lbs.

Coal remaining on hand at Noon 72 " 920 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		S W	S. W	2		30.01	67	69	60		bcz	Ci & Cum	8	"	
2	"		"	"	2		30.00	68	70	60		"	"	8	"	
3	"		"	"	2		29.98	69	70	60		"	"	7	"	
4	"		"	"	2		29.98	69	70	60		"	Ci Cum Cum strat	5	"	
5	"		"	"	2		29.98	71	68	61		bc	"	6	"	
6	"		"	"	3		29.98	71	67	61		"	"	5	"	
7	"		"	"	2		29.98	70	66	61		"	Ci strat	8	"	
8	"		"	"	1		29.98	70	67	62		"	"	7	"	
9	"		N E × E	N E.	1		29.98	68	67	61		bcl	"	8	"	
10	"		"	"	1		30.00	70	67	62		"	"	8	"	
11	"		"	"	1		30.02	68	67	62		"	"	7	"	
Mid.	"		"	"	1		30.03	68	66	62		"	"	6	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;
Monday, May 26th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Calm. Barometer steady. Aneroid at end of watch 30.20.

C. P. Rees Lieut

4 to 8 A.M. Clear, calm, and pleasant. P and O steamer with English mail came in and anchored. Steady barometer. Aneroid at end of watch 30.20. At 7.30 crossed royal yards.

W. C. P. Muir Ensign

8 A.M. to Meridian. Clear and pleasant weather. Light breeze from S to S.E. Barometer steady. By order of Captain released from confinement. Wm Toole, (2CB.) Louis Deistel, (Sea), and Thos. J. Wynne, (1CM) and confined John Kennedy, (2CM) in double irons to await trial by courtmartial. At 9.30 mustered and inspected crew at quarters, had battalion drill and divisional exercise. Aneroid barometer 30.20.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather clear and pleasant, Gentle breeze from S.W. Barometer falling. Aneroid at end of watch 30.14.

C. P. Rees Lieut

4 to 8 P.M. Weather clear and pleasant. Light breeze from S.W. Barometer falling. At 4.45 mustered at quarters. At 5.30 sent down royal and topgallant yards and masts. Aneroid barometer 30.17.

Karl Rohrer, Lieut

8 P.M. to Midnight, Weather clear and pleasant. Light airs from Nd and Ed. Barometer rising. Aneroid at end of watch 30.20.

C. P. Rees Lieut

Moon l mid
Dec 18° 42' 00" N.
Phase New moon.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Kobe. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N E	Calm	0		30.03	67	65	61		bclt	Cir cum nimbs	4	S	
2	"		"	S W.	1		30.03	67	66	62		bcp.	"	2	"	
3	"		"	"	1		30.03	67	66	63		"	"	1	"	
4	"		"	"	1		30.03	67	66	63		"	"	6	"	
5	"		"	S S E.	1		30.04	67	66	63		bc	Cir Cum strat	4	"	
6	"		"	Calm	0		30.06	67	64	61		"	"	7	"	
7	"		"	"	0		30.08	67	64	62		"	Cir & Cum	7	"	
8	"		"	"	0		30.09	67	65	62		"	"	7	"	
9	"		"	E.	1		30.10	68	64	58		"	"	6	"	
10	"		"	N.	2		30.10	70	69	61		"	"	6	"	
11	"		"	"	3		30.10	70	69	61		"	"	6	"	
Noon.	"		"	"	3		30.10	70	69	61		"	"	6	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 320 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2280 "

Coal consumed during the preceding 24 hours tons 840. lbs.

Coal remaining on hand at Noon 72 " 80 "

P. M.																
1	"		N × W	N N W	3		30.10	70	69	58		bc	Cir Cum	6	"	
2	"		N.	N × E.	3		30.09	70	70	59		"	"	7	"	
3	"		"	"	3		30.09	71	71	59		"	"	8	"	
4	"		N E × N.	N N E.	3		30.09	71	71	59		"	"	8	"	
5	"		N N E.	"	3		30.09	71	69	57		"	"	7	"	
6	"		"	"	3		30.08	71	68	57		"	Cir Strat	7	"	
7	"		S E	"	3		30.08	71	67	57		"	Cir. Cum	7	"	
8	"		"	"	3		30.08	70	66	57		"	"	8	"	
9	"		S S W	N W	0-1		30.08	71	65	57		"	Cir	9	"	
10	"		"	N N E	2		30.10	70	64	56		"	"	9	"	
11	"		"	"	2		30.10	70	64	56		"	"	9	"	
Mid.	"		"	"	2		30.10	70	64	56		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday May 27, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Heavy thunder and lightening first hour, passing showers remainder of watch. Calm and light airs from S.W. Aneroid 30.20. P. & O. steamer left harbor at 2.30.

R. O. Bitler Ensign.

4 to 8 A.M. Weather clear and pleasant. Calm. Barometer rising. Received on board for ships company 140 lbs of fresh beef, 140 lbs of vegetables and 112 loaves of bread. At 7.30 sent up topgallant masts and yards. After swaying across, the starboard fore topgallant lift and brace was hauled off and the fore topgallant yard came down by the run, abaft and on the starboard side, going overboard but hurting nobody nor anything. Got the yard in on deck and crossed it. Aneroid barometer 30.37.

Karl Rohrer, Lieut

8 A.M. to Meridian. Weather clear and pleasant. Light to gentle breeze from Ed. hauling to Nd. Barometer steady. Mustered at quarters at 9.30 and exercised divisions at gun drill. At 9.45 called away all boats armed and equipped and exercised at squadron tactics. Secured and at 10.25 exercised at fire quarters. At 10.30 called all hands abandon ship and exercised at provisioning and leaving ship. Secured at 11.00. The Commanding Officer left the ship officially to visit British Consul and returned at 11.50. Weather getting squally near end of watch. Aneroid 30.28.

C. P. Rees Lieut

Meridian to 4 P.M. Clear and pleasant. Gentle breeze from N.N.W. to N.N.E. Aneroid barometer 30.23

R. O. Bitler Ensign

4 to 8 P.M. Weather clear and pleasant. Gentle breeze from N.N.E. Barometer steady. Mustered at quarters at 4.45. Sent down topgallant yards at 5^{00}. Lieut M. A. S. Mackenzie and Passed Asst Payr L. A. Yorke returned from leave. Aneroid at end of watch 30.27.

C. P. Rees Lieut

8 P.M. to Midnight. Clear and pleasant. Calm to light airs from S.W. first hour, light N.N.E. breeze during remainder of watch. Aneroid barometer 30.27.

R. O. Bitler Ensign

Moon's mid Examined and found to be correct.
Dec 17° 36′ 40″ N
Phase. New moon.

W. F. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Kobe Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			ESE	NE.	4		30.10	65	59	53		bc	Cir Cum	9	S	
2	"		"	"	2		30.10	65	59	53		"	"	9	"	
3	"		SW+S.	"	1		30.08	63	58	53		"	"	9	"	
4	"		"	"	1		30.06	63	58	53		"	"	9	"	
5	"		SSW.	Calm	0		30.06	62	57	53		"	"	8	"	
6	"		"	NE.	1		30.06	62	58	53		"	"	8	"	
7	"		"	"	1		30.06	62	59	53		"	"	9	"	
8	"		"	"	1		30.06	62	59	53		"	"	9	"	
9	"		E.	E.	3		30.06	63	60	54		"	Cis	9	"	
10	"		"	"	2		30.05	64	61	55		"	"	8	"	
11	"		S.E.	S.	2		30.04	66	64	58		"	"	8	"	
Noon.	"		"	"	2		30.04	67	66	59		"	Cir + Cum	5	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours *330* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *1950* "

Coal consumed during the preceding 24 hours tons *400* lbs.

Coal remaining on hand at Noon *108* " *240* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		S.E.	S.	1		30.02	70	70	61		bc	Cir Cum	8	"	
2	"		"	"	1		30.00	70	70	61		"	"	8	"	
3	"		"	WSW.	1		30.00	70	70	61		"	"	8	"	
4	"		"	S.W.	1		30.00	70	70	61		"	"	7	"	
5	"		"	"	1		29.98	72	71	64		"	"	7	"	
6	"		SW+S.	SW+S.	1		29.97	72	71	64		"	"	7	"	
7	"		WSW.	WSW.	1		29.96	70	68	63		"	Cir Cu str	6	"	
8	"		"	"	1		29.96	70	67	63		"	"	6	"	
9	"		N.	"	1		29.96	70	68	64		"	"	5	"	
10	"		"	Calm	0		29.96	70	68	64		"	Cir Cum	5	"	
11	"		"	NE.	1		29.96	69	68	63		"	"	6	"	
Mid.	"		NE.	"	2		29.95	69	65	62		"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy;
Wednesday. May 28. , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, bright starlight. Moderate breeze from N.E., falling light latter part. Aneroid barometer 30.26.

W.M. Irwin Lieut

4 to 8 A.M. Weather clear and pleasant. Gentle breeze from N.E. Barometer steady. Crossed topgallant yards and loosed sail to a bowline at 7.25. Shortened sail at 7.30. Aneroid at end of watch 30.26.

J.E. Rees Lieut

8 A.M. to Meridian. Clear and pleasant, gentle to light breeze from East, hauling to the south last two hours. At 8.45 hoisted in the steam cutter. At 9.30 exercised at shifting foresail. At 11^{00} furled sail. Aneroid barometer 30.22. At 10^{00} Summary Court-martial of which Lieut W. H. Parker was senior member convened on board for the trial of John Kennedy. (Q.M.) At 11^{55} Court adjourned till 1. P.M.

R.O. Bitler Ensign

Meridian to 4 P.M. Clear and warm. Light airs from South, hauling to S.W. At 1. Summary Courtmartial met pursuant to adjournment and at 1^{05} adjourned sine die. At 2^{00} commenced coaling ship. Aneroid barometer 30.14.

W.M. Irwin Lieut

4 to 8 P.M. Clear and pleasant, Light airs from S.W. by S to W.S.W. At 5^{20} finished coaling having taken in 36 $\frac{560}{2240}$ tons. At 6^{00} sent down topgallant and royal yards. Aneroid barometer 30.14.

R.O. Bitler Ensign

8 P.M. to Midnight. Cloudy and cool. Calm first part. Gentle breeze from N.E. rest of watch. Barometer steady. Aneroid barometer 30.13.

W.M. Irwin Lieut

Moon's mid. Examined and found to be correct.
Dec 15° 24′ 49″ N.
Phase, New moon.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Kobe. Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N.E	N.E.	3		29.95	69	65	62		bc	Cir cum Cu. nimb	2	S.	
2	″		″	E.N.E	3		29.93	68	65	61		bc.l	″	2	″	
3	″		″	″	4		29.92	68	65	61		″	Cir & Cum	4	″	
4	″		″	″	4		29.90	68	65	61		″	″	5	″	
5	″		E.	E x N.	3		29.90	66	64	60		bc	″	1	″	
6	″		″	″	3		29.90	66	64	60		″	″	4	″	
7	″		N.E x E	N.E x E.	3		29.90	66	64	60		″	″	4	″	
8	″		″	″	3		29.90	66	64	60		″	″	5	″	
9	″		E.N.E.	E.N.E.	3		29.91	67	66	61		″	Cir Cum Cum nimb	4	″	
10	″		″	″	2		29.92	68	67	62		″	″	2	″	
11	″		″	″	2		29.92	69	68	63		″	″	3	″	
Noon.	″		N.N.E.	Calm	0		29.91	70	71	65		″	Cir cum Ci & cum	3	″	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 320 gallons.

Water during the preceding 24 hours - "

Water remaining on hand fit for use at Noon 1630 "

Coal consumed during the preceding 24 hours tons 4400 lbs.

Coal remaining on hand at Noon 107 " 2080 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.															″	
1	″		W.N.W	S.W.	1		29.90	70	74	66		bc	Ci & cum	4	″	
2	″		S.W	″	2		29.90	72	73	65		″	″	4	″	
3	″		″	W.S.W	3		29.90	72	72	65		″	″	4	″	
4	″		″	″	3		29.90	71	71	65		″	Cir Cum Cum strs	2	″	
5	″		″	″	2		29.90	71	71	65		bcp	″	1	″	
6	″		″	″	2		29.88	71	71	65		bc	″	3	″	
7	″		W x N.	W.N.W.	1		29.88	71	68	63		″	″	3	″	
8	″		″	″	2		29.87	71	68	63		″	″	1	″	
9	″		N.	W.	1		29.87	70	68	64		bcp	″	1	″	
10	″		″	″	1		29.87	70	69	64		″	Cum & Cir Cum	2	″	
11	″		N.N.E	N.N.E	1		29.89	70	68	64		bc	″	7	″	
Mid.	″		″	″	1		29.89	69	67	63		″	″	6	″	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Thursday May 29th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Moderate breeze from N E to E N. E. Aneroid 30.05.

Wainwright Kellogg
WK Lieut

4 to 8. A.M. Cloudy and pleasant. Gentle breeze from E by N to N E by E. Received on board in Pay Dept. 140 lbs fresh beef and vegetables and 112 loaves of bread. Sent an officer to board American ship John A. Briggs of Portland from Philadelphia with cargo of Kerosine. Aneroid barometer 30.10. At 7.05 crossed topgallant and royal yards and loosed sail. Furled sail at 7.13.

R. O. Bitler Ensign

8. A.M. to Meridian. Cloudy, warm. Gentle breeze from E N E. Inspected at quarters at 9.30, after which exercised at company and machine gun drill. Crew employed at painting hammock cloths, 2d whale boat and 2d cutter. Aneroid barometer 30.13.

W. N. Irwin
Lieut

Meridian to 4. P.M. Cloudy. Pleasant. Light breeze from S. W to W. S. W. Aneroid 30.05. At 1.00 called all hands to muster, and read sentence of Summary Court-martial in the case of John Kennedy (2d Cl Machinist) sentencing him to be disrated to next lower rating. (3d Cl Machinist).

Wainwright Kellogg Lieut

4 to 8. P.M. Cloudy and damp. Moderate breeze from W S W to W. N. W. Mustered at quarters at 4.45. At 4.50 sent down topgallant and royal yards. Aneroid barometer 30.08.

W. N. Irwin
Lieut

8. P.M. to Midnight. Cloudy. Drizzling rain first two hours of watch, clearing remainder of watch. Aneroid 30.10

Wainwright Kellogg
WK Lieut

Moon l mid
Dec 12° 21' 49" N.
Phase, New moon.

Examined and found to be correct.

W. F. Worth
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Kobe, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N E	Calm	0		29.90	68	67	64		bc	Cir Cum & Nimb	3	S	
2	"		"	"	0		29.90	68	67	64		"	"	2	"	
3	"		"	"	0		29.90	68	66	63		"	"	4	"	
4	"		"	"	0		29.90	67	66	63		"	Cir Cum & Strat	4	"	
5	"		"	"	0		29.89	67	66	63		"	"	6	"	
6	"		"	"	0		29.89	67	66	63		"	"	7	"	
7	"		"	"	0		29.89	67	66	63		"	"	7	"	
8	"		"	E S E.	2		29.89	67	66	63		"	"	5	"	
9	"		E S E	E x N.	2		29.90	67	66	61		"	Cir Cum	6	"	
10	"		S E.	"	2		29.88	67	66	61		"	"	6	"	
11	"		S S E.	E x S	2		29.88	67	66	62		"	"	3	"	
Noon.	"		"	"	2		29.88	68	67	63		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 320 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1300 "

Coal consumed during the preceding 24 hours 1 tons 800 lbs.

Coal remaining on hand at Noon 106 " 1280 "

P. M.															
1	"		S.S.W.	S S E	1		29.87	70	69	65		bcz	Cir Cum & Cum	2	"
2	"		"	"	1		29.86	70	70	65		"	"	1	"
3	"		"	"	1		29.84	70	70	65		"	"	1	"
4	"		"	"	1		29.84	71	69	64		"	"	4	"
5	"		"	Calm	0		29.84	70	70	65		bc	Cir Cum Cum Strat	2	"
6	"		"	"	0		29.84	69	69	64		"	"	3	"
7	"		W N W.	"	0		29.83	70	70	65		"	"	3	"
8	"		"	"	0		29.83	70	70	65		"	"	3	"
9	"		"	"	0		29.82	70	70	65		"	"	5	"
10	"		N E.	E	2		29.82	70	68	64		"	"	3	"
11	"		"	"	2		29.82	68	66	63		"	"	3	"
Mid.	"		E N E	"	2		29.80	68	66	63		"	"	4	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Friday. May 30. , 1874.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Generally cloudy. Calm. Barometer steady. Aneroid, at end of watch 30.09

wcm

W. C. McLain Ensign.

4 to 8 A.M. Pleasant weather. Calm greater part of watch: light breeze from ESE last hour. At 7:30 crossed topgallant yards, and loosed sail. Aneroid barometer 30.10.

W. M. Irwin

wmd Lieut

8 A.M. to Meridian. Cloudy Hazy. Pleasant. Light variable airs from Ed. At 9:30 went to general quarters, all divisions ready in 3 minutes, exercised at great guns. At 9:40 called all hands rig torpedo Spars, and exploded practice torpedoes on both booms At 11:30 furled sail. Aneroid 30.09.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Cloudy and hazy. Calm to light airs from S. S. E. Barometer falling slowly Aneroid, at end of watch 30.02.

W. C. McLain Ensign

4 to 8 P.M. Hazy. Pleasant, Calm, At 4.45 mustered at quarters. Aneroid 30.01.

Wainwright Kellogg

wok Lieut

8 P.M to Midnight. Cloudy and cool. Lightning and light fall of dew last hour. Light easterly wind. Barometer steady. Aneroid 30.01.

W. C. McLain Ensign.

Moon's mid Examined and found to be correct.

Dec. 8° 45' 00" N.

Phase, New moon.

W. T. Park

Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,
Kobe, Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			ENE	ENE	1		29.80	68	66	63		bc	Cir. Cumulus	5	S	
2	"		"	"	1		29.80	67	66	63		"	"	3	"	
3	"		"	"	1		29.80	67	66	63		"	"	1	"	
4	"		"	"	1		29.80	67	66	63		"	"	2	"	
5	"		"	"	3		29.80	67	66	63		"	Cir Cum strat	3	"	
6	"		"	"	2		29.79	68	66	64		"	"	2	"	
7	"		"	"	2		29.79	68	66	64		"	"	1	"	
8	"		"	"	2		29.79	68	67	64		"	Cir Cum	4	"	
9	"		"	"	1		29.78	68	68	65		"	"	3	"	
10	"		"	"	1		29.78	69	69	66		"	"	3	"	
11	"		"	"	1		29.77	71	71	67		"	"	3	"	
Noon.	"		S	S.W.	2		29.77	71	71	67		"	"	3	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ☉ ° ′ ″

Longitude by Chronometer from Forenoon Observations ☉ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ☉ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1000 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 106 " 880 "

P. M.																
1	"		S.W.	W.S.W.	2		29.97	70	70	67		bcp	Cum & Cir Cum	3	"	
2	"		"	"	2		29.97	71	70	67		bcd	"	1	"	
3	"		"	"	1		29.97	70	70	67		"	"	1	"	
4	"		"	S.W.	1		29.97	70	69	67		ocr	"	0	"	
5	"		S.	"	1		29.97	69	69	67		bcd	Cir Cum strat & cumulus	3	"	
6	"		"	ESE	1		29.98	69	69	67		bc	"	4	"	
7	"		"	"	1		29.98	70	68	66		"	"	3	"	
8	"		"	"	1		29.99	70	68	66		"	"	4	"	
9	"		E+N.	ENE.	1		29.99	72	68	66		"	Cir Cum	7	"	
10	"		"	"	1		29.99	72	68	66		"	"	8	"	
11	"		"	"	1		29.99	72	68	66		"	"	4	"	
Mid.	"		"	"	1		29.99	70	68	66		"	"	4	"	

Longitude by Chronometer from Afternoon Observations ☉ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Saturday May 31st, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light breeze from E.N.E. Barometer steady. Aneroid barometer 30.00.

Karl Rohrer, Lieut

4 to 8 A.M. Cloudy. Hazy. Pleasant. Light breeze from E.N.E. Aneroid 30.00.

W[illegible] Kellogg
WK Lieut

8 A.M. to Meridian Generally cloudy. Calm to light E.N.E. airs shifting to S.W. last hour of watch. Barometer falling slowly. Enlisted for cruise, special service, as landsman, Yoshigiroo Todoroki. Went to quarters at 9³⁰ for inspection. Aneroid at end of watch 29.99.

W. C. P. Muir Ensign.

Meridian to 4 P.M. Weather rainy. Light breeze from N.S.W. Barometer steady. At 2.10 started fires under two starboard forward boilers for distilling purposes. Aneroid barometer 29.98.

Karl Rohrer, Lieut

4 to 8 A.M. Cloudy with light fall of rain first part of watch. Light E.S.E. airs. Barometer rising slowly. Went to quarters at 4.45, and secured battery for sea. Bent light sails and made all preparations for sea. Started distilling at 4.30. Aneroid at end of watch 30.01.

W. C. P. Muir Ensign.

8 P.M. to Meridian. Clear and pleasant weather. Light breeze from E.N.E. Barometer steady. Distilling water. Aneroid barometer 30.03. Received on board for crew 112 loaves of bread.

Karl Rohrer, Lieut

Moon l. mid Examined and found to be correct.
Dec 4° 49' 28" N.
Phase, 1st Quarter.

W. T. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,
Kobe. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N.	N N E	1		29.82	68	68	66		bc	Cir cum	3	S	
2	"		"	"	1		29.82	68	68	66		"	"	3	"	
3	"		"	"	1		29.82	68	68	66		"	"	5	"	
4	"		S E	S E.	1		29.82	66	66	64		"	"	5	"	
5	4	0	Var	W × S.	2		29.85	67	66	63	64	"	"	5	"	
6	8	0	"	"	2		29.87	66	63	60	64	"	Cir cum strat	6	"	Set fore and aft sail
7	8	0	"	N.	3		29.88	66	63	60	64	"	"	2	"	except main topsail
8	8	0	"	N W.	3		29.90	64	63	60	64	"	"	2	"	Set main topsail
9	8	0	W S W ½ W	W	4		29.92	65	63	59	64	"	"	4	"	Took in fore and aft
10	7	5	W ½ S.	"	3		29.93	66	64	59	64	"	Cum strat	6	"	sail
11	7	5 5	W ¾ N.	"	3		29.94	67	66	60	64	"	"	8	"	
Noon.	2 4	5 5	W N W N W × W ¾ W	"	3		29.94	67	66	60	65	"	"	8	"	

Distance run by Log since preceding Noon 58 knots 0 ~~fathoms~~ tenths

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 1900 "

Water remaining on hand fit for use at Noon 2600 "

Coal consumed during the preceding 24 hours 11 tons 1140 lbs.

Coal remaining on hand at Noon 95 " 740 "

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	7	0	W × S	W × S	3		29.93	69	67	60	65	bc	Cir cum & cum	8	"	
2	7	4	Var	"	3		29.92	69	67	61	65	"	"	8	"	
3	7	0	"	"	3		29.91	69	67	61	65	"	"	7	"	
4	Swinging ship			"	2		29.90	70	68	61	65	"	"	7	"	
5	"		"	"	1		29.90	68	69	63	65	"	"	7	"	
6	1	2	W N W ½ W.	W.	1		29.90	69	68	60	65	"	"	8	"	
7	7	0	W N W.	"	1		29.90	68	68	60	65	"	"	8	"	
8	7	0	"	"	1		29.90	68	68	60	65	"	"	9	"	
Anchored			S E × S	S W	1		29.93	69	67	62		"	Cir	9	"	
10	"		"	Calm	0		29.95	68	67	63		"	"	9	"	
11	"		N × W.	N N W	2		29.95	67	66	60		"	"	9	"	
Mid.	"		"	"	2		29.95	66	65	59		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Sunday, June 1st, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather partly cloudy and pleasant, Light airs from N N E. Barometer steady. Distilling. Started fires under boilers 2, 4, 6. 7. 8 at 1^{30}, Aneroid at end of watch 30.02.

A P Kee Lieut

4 to 8 A.M. Cloudy and cool. Light wind from W by S. Shifting to North and then to N W. Barometer rising slowly. At 4 called all hands up anchor. Started under four bells at 4.27. At 6 o'clock Matsu Wo No Ham Light bore abeam, set course W S W. At 6^{24} changed course W S W ½ W. At 7 set fore and aft sail except main trysail. Average steam 58 lbs. Revs 50. Aneroid at end of watch 30.11.

Wm Muir Ensign

8 A.M. to Meridian, Weather clear and pleasant, Gentle breeze from W. Barometer steady. Under steam. pressure 57 lbs, and making 50.9 revolutions At 9^{30} called all hands to muster, and read articles for the better government of the Navy, Standing through inland sea, Captain directing the course which is frequently changed by his order. Aneroid barometer 30.13.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather clear and pleasant. Light breeze from W by S. Barometer falling. Standing through inland sea under direction of Comdg Officer. Slowed down at 3^{30} and began swinging ship in Bingo Nada, Heading west at end of watch. Steam 55. Revolutions 37. Aneroid 30.10

A P Kee Lieut

4 to 6. P.M. Clear and warm. Light breeze from West. Continued swinging ship until 5^{48} when having completed it the ship was put on course W N W ½ W. under guidance of Commanding Officer. Started ahead four bells at 5^{40}, Aneroid barometer 30.11.

W. M. Irwin
comd Lieut

6 to 8. P.M. Clear and pleasant. Light airs from N W. Steaming under six boilers. Steering various courses, under direction of Comdg. Officer. At 7^{50} slowed down to come to an anchor. Aneroid 30.12

Wainwright Kellogg Lieut

8 P.M. to Midnight. Weather clear and pleasant. Light breeze from S W to N N W. Barometer steady. At 8^{02} came to with port anchor in 8 fathoms of water, veering to 30 fathoms on the chain. Bearings of anchorage: Hyaku Kuon Island E + S. Kii Siaca point S by E ½ E. and Harukus point S W + S. Ships head W by N. Banked fires. Aneroid barometer 30. 13.

Karl Rohrer Lieut

Moon Cnid Examined and found to be correct.
Dec 0° 47.35. N.
Phase. First Qr.

W. H. Parker
Lieut Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Anchored off Inu-no-sima Island. Inland sea of Japan.

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N.W.	N.W.	2		29.95	68	65	61		bcz	Ci.cum	8	S	
2	"		"	"	2		29.95	68	65	61		"	"	8	"	
3	"		"	"	2		29.95	68	65	61		"	"	7	"	
4	"		"	"	2		29.95	68	65	61		"	"	7	"	
5	3	0	Various	N.W.×N.	2		29.92	66	61	57	62	"	"	8	"	
6	7	0	"	"	0		29.93	65	60	57	62	ocz	"	0	"	
7	7	2	"	W.	2		29.93	65	60	57	62	bcz	"	2	"	
8	6 1	0 4	S.W.¼S.	"	1		29.93	65	60	57	62	"	"	4	"	
9	7	8	"	"	1		29.96	65	64	61	62	"	"	3	"	
10	5 2	0 8	S.W.¼W.	W.N.W.	2		29.98	66	64	61	62	"	Ci. cum & cumuli	4	"	
11	5 1	0 8	W.S.W.	"	2		29.99	66	64	61	62	"	"	2	"	Set fore and aft sail except main trysail
Noon.	6 1	5 3	W.S.W.¾W.	W×S	1		29.99	66	65	61	62	"	Ci. cum & strat	6	"	Took in fore and aft sail

Distance run by Log since preceding Noon 92 knots 4 tenths ~~fathoms.~~

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2250 "

Coal consumed during the preceding 24 hours 15 tons 200 lbs.

Coal remaining on hand at Noon 80 " 540 "

Hour.	Knots.	Fathoms.	Courses steered.	Winds. Direction.	Winds. Force.	Leeway	Barometer. Height in inches.	Barometer. Ther. att'd.	Temperature. Air Dry Bulb.	Temperature. Air Wet Bulb.	Temperature. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	6	5	W.S.W.¾W.	S.S.W.	1		29.97	68	68	64	64	bc	Ci. cum & cum	6	S	
2	3 3	5 0	W.N.W.½W.	"	1		29.94	66	69	64	65	"	"	6	"	
3	Steaming around target			"	2		29.91	66	67	63	65	"	"	5	"	
4	5 1	8 5	W×N. W.N.W.¾W.	"	1		29.90	67	68	64	64	"	"	4	"	
5	8	5	"	"	2		29.87	68	68	64	64	"	"	2	"	Set fore and aft sail ex. trysail
6	8	5	"	"	2		29.87	65	68	64	64	bcp	"	3	"	
7	7	0	"	N.W.	3		29.90	68	66	61	64	"	"	4	"	Took in fore and aft sail
8	7	0	"	N.W.×W.	3		29.90	66	66	61	64	bc	"	7	"	
9	7	0	N.W.×W.	"	2		29.92	68	65	61	64	"	"	5	"	
Anchored			"	N.W.	2		29.94	67	65	59		"	"	2	"	
11	"		"	"	2		29.94	66	65	59		"	"	3	"	
Mid.	"		"	"	3		29.94	65	63	59		bcd	Ci. cum nimb	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Monday June 2d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light breeze from N.W. Barometer steady. Spread fires at 3.30. Aneroid at end of watch 30.12.

C. Rees Lieut

4 to 8 A.M. Cloudy and cool, Light breeze from N W by N to West. At 4^{oo} called all hands up anchor and hove short. At 4^{20} hove up port anchor and started ahead one bell; rung four bells at 4^{40}. Remainder of watch standing through inland sea, standing various courses. At 7.40 shaped course W by S. Aneroid bar. 30.18. Steam 48 lbs. Revolutions 47.

W. M. Irwin Lieut

8 A.M to Meridian. Cloudy. clearing last hour, Pleasant, Light airs from N^{d} and W^{d}, At 10. set fore and aft sails and at 11. took them in. At 9.30 mustered at quarters. had battalion drill, and afterwards exercised all divisions at company drill.. At 9.38 changed course to S W ½ W, at 10 to W S W, at 11^{50} to W S W ¾ W. At 10.10 Isuru light bore abeam (port.) Steam 47 lbs. Revs 46. Aneroid 30.18.

Wainwright Kellogg Lieut

Meridian to 4 P.M. Weather clear and pleasant, Light breeze from S.S.W. Barometer falling. At 1.35 changed course to W N W ½ W, at 3.05 put the ship on the course W by N, and at 3.50 changed course to W N W ¾ W; all by order of the Captain. Steaming through the inland sea, Captain directing course. Steam pressure 45 lbs and making 40 revolutions. At 12^{45} transferred fires from boilers 2 and 4 to 1 and 3. At 2.08 slowed down got target overboard and went to quarters, and fired at target. Expended in target practice 150 lbs hexagonal powder, 120 lbs cannon powder, 48 lbs rifle powder and 2¼ lbs common powder. also 3 VIII in short shell 5" fuze 3 VIII in short shell percussion fuze: 8 IX in shell. 10" fuze, 4 IX in shell 5" fuze 8. 60 pdr. 5" shell, 3. III in shell, Boxer fuze and 1 60 pdr shell percussion fuze. Aneroid barometer 30.11.

Karl Rohrer Lieut

4 to 6. P.M. Weather cloudy with gentle breeze from S W. Barometer steady. Steaming through Suwa Nada, course W N W ¾ W. under direction of Comdg Officer. Aneroid at end of watch 30.10. Steam 46. Revolutions 46.

C. Rees Lieut

6 to 8. P.M. Pleasant weather. Gentle breeze from S.S.W. At 6^{10} took in all fore and aft sail. At 7^{55} sighted Isaki light bearing p.c. N W. Steam 48. Revolutions 48. Aneroid barometer 30.16

W. M. Irwin Lieut

8 P.M to Midnight, Cloudy, Pleasant. Light breeze from N W. with moderate breeze last half hour of watch. At 9. slowed down and at 9.05 came to with port anchor in 8 fms. of water. and veered to 30 fathoms. Isaki light bore N W ½ N distant about 10 miles. Banked fires. Aneroid 30.18 ~~Examined and found to be correct.~~

Wainwright Kellogg Lieut

Moon l mid
Dec 3° 17' 16.3.
Phase 1st Qr.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer Essex*, *3d* Rate, *6* Guns,

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			NNW	N×N.	2-3		29.96	65	62	58		bcqdl	Cum. str. nimb	4	S	
2	"		"	"	2-3		29.96	64	62	59		bcql	"	4	"	
3	"		"	"	2-3		29.96	62	62	59		"	"	5	"	
4	"		"	"	2-3		29.96	63	63	59		"	"	6	"	
5	6	8		NNW.	3		29.96	65	63	59	64	bc	Cir Cum	8	"	
6	6	8		"	2		29.98	66	63	60	64	"	"	5	"	
7	6	8		"	2		29.99	66	63	60	64	bcd	Cir cum nimb	2	"	
8	6	8		"	2		30.00	68	63	60	64	bc	Cir Cum	4	"	
9	3 4	0 5	NW½N. WSW½W.	"	2		30.00	67	61	58	64	"	"	7	"	Set fore and aft sail and foresail.
10	7 1	4 0	W½S.	NW×N.	3		30.00	64	61	57	64	"	"	7	"	
11	2 2 2	0 0 0	West W×S WSW½W.	"	3		30.03	64	61	57	64	"	"	8	"	
Noon.	8	4	"	"	3		30.03	64	61	57	64	"	"	8	"	

Distance run by Log since preceding Noon 117 knots 4 tenths ~~fathoms.~~

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1950 "

Coal consumed during the preceding 24 hours 14 tons 840 lbs.

Coal remaining on hand at Noon 65 " 1940 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	7 1	3 5	SW½W SW×W.	NW×W.	2		30.05	65	63	58	65	bc	Cir cum	8	"	Took in all sail.
2	3 4 1	2 0 6	SW×W¼W SW¼W	N.	1		30.05	65	65	60	65	"	"	8	"	
3	7	0	Various	E.NE.	2		30.05	66	67	61	65	"	"	7	"	
Anchored			NE.	NE.	2		30.05	66	65	60		"	"	8	"	
5	"		NNW.	"	2		30.06	66	66	61		"	"	8	"	
6	"		"	"	1		30.06	66	66	61		"	Cir cum str	6	"	
7	"		NNE.	"	1		30.07	65	64	60		"	"	7	"	
8	"		"	"	1		30.08	65	64	60		"	Cir. strat	7	"	
9	"		E×N.	E.	1		30.06	67	64	60		"	"	7	"	
10	"		SE×S.	"	1		30.07	66	64	60		"	"	7	"	
11	"		"	"	1		30.07	66	64	60		"	"	7	"	
Mid.	"		SSW.	"	1		30.07	66	62	59		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Tuesday June 3d, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and till 4 A.M. Weather somewhat squally. Drizzling rain in first hour of watch. Lightning to S^d and E^d. Breeze light to gentle from W by N. Barometer steady. Fires banked. Aneroid barometer 30.00.

Karl Rohrer, Lieut

4 to 8 A.M. Weather generally pleasant. Gentle breeze from N^d and W^d. Barometer rising. Got underway at 4^{00} and steamed through Simonoseki Straits under pilotage of Commanding Officer. Passed Rokuren S. St at 7.15 and red buoy off Ai Sima at 7^{50} heading W by N. Aneroid at end of watch 30.24. Steam 46. Revolutions 48.

Lieut

8 A.M. to Meridian. Pleasant weather. Light breeze from N W by N. Smooth sea. At 9^{15} inspected crew at quarters and exercised at great guns. At 8^{05} changed course to W S W ½ W and set all fore and aft sail. At 8^{55} set foresail. At 9^{53} changed course to W ½ S., at 10^{15} to West, at 10^{30} to W by S, at 10^{42} to W.S.W ½ W, and at 11^{58} to S W ½ W. Steam 48.5. Revolutions 46.2. Patent log 77.9. Aneroid barometer 30.27.

W. A. Simons Lieut

Meridian to 4 P.M. Clear and pleasant. Light breeze from N W to E. N. E. Smooth sea. At 12^{50} changed course to S W by W. at 1^{20} to S. W by W ¼ W. at 1^{45} to S W ¼ W. at 2^{10} to S. W ½ W. at 2^{25} to S W by W. ½ W, and at 2^{30} to S. S. W ½ W. At 1^{30} took in all fore and aft sails. From 2^{30} to 3^{00} standing in to Yabuko Harbor. At 3 came to with port anchor in 14 fathoms water, and veered to 45 fathoms of chain in Yabuko Harbor. Banked fires. Loosed topsails to dry. Aneroid 30.20. At 11^{30} Oro no Sima Island bore abeam. At 1^{00} Yebuse Light bore abeam.

Wainwright Kellogg Lieut

4 to 6. P.M. Weather clear and pleasant. Light breeze from N E. Barometer steady. Fires banked. Furled the topsails. Aneroid barometer 30.26.

Karl Rohrer, Lieut

6 to 8. P.M. Weather clear and pleasant. Light airs from N E. Barometer steady. Fires banked. Aneroid at end of watch 30.28.

Lieut

8 P.M. to Midnight. Pleasant weather. Light airs from E^d. Fires banked. Aneroid barometer 30.29.

W. A. Simons
Lieut

Moon l mid Examined and found to be correct.
Dec 7° 02' 43" S.
Phase, 1st Qr.

W. T. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Anchored in Yabuko Harbor. Inland Sea of Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			E.	N E.	1		30.06	63	62	59		bc	Ci Cum	8	S	
2	"		"	"	1		30.06	63	62	59		"	"	7	"	
3	"		S.	S	1		30.06	64	62	59		"	"	7	"	
4	"		"	"	1		30.06	63	61	58		"	Ci Cum & Nimb	4	"	
5	Steaming out of Yabuko Harbor			N E	1		30.07	63	62	59		"	Ci & Str	4	"	
6	4	5	W ¼ S.	N N W.	2		30.08	63	61	59	64	"	"	2	"	Set fore and aft sail
7	6 1	0 5	W.	"	2		30.09	63	61	59	64	"	"	3	"	Set foresail
8	3 3	5 0	SW ½ W. SW ¾ W.	E N E.	2		30.09	63	63	60	64	"	"	4	"	Took in fore and aft sail
9	3 4	5 0	SSW ½ W.	"	2		30.10	63	63	60	64	bcz	"	4	"	Set fore and aft sail
10	7	5	"	"	12		30.11	65	64	60	64	"	Ci Cum & Cum	2	"	and fore topsail
11	8	0	"	E	12		30.11	67	65	61	65	"	"	1	"	
Noon.	7	5	"	"	1-2		30.11	68	67	63	65	"	"	1	"	Took in all sail

Distance run by Log since preceding Noon 74 knots 6 tenths ~~fathoms.~~

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1600 "

Coal consumed during the preceding 24 hours tons lbs.

Coal remaining on hand at Noon " "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of sail.
P. M.																
1	8	0	SSE ½ E.	E.	2		30.09	67	68	63	65	bcz	Cir & Cir Cum	2	"	
2	8	0	SE ¾ E.	"	2		30.07	68	68	62	65	"	"	3	"	
3	8	0		"	2		30.05	68	68	64		"	"	4	"	
Anchored			S W.	S W	2		30.05	68	68	64		"	"	4	"	
5	"		S S W.	"	2		30.05	70	70	62		"	"	3	"	
6	"		"	"	1		30.05	71	70	63		"	"	6	"	
7	"		"	"	1		30.04	71	70	64		"	"	6	"	
8	"		"	"	1		30.04	71	70	64		"	"	4	"	
9	"		"	N E.	1		30.06	70	69	63		"	Ci	9	"	
10	"		N N E.	"	1		30.07	69	68	63		"	Cir Cum	7	"	
11	"		"	"	1		30.07	68	67	62		"	"	5	"	
Mid.	"		"	"	1		30.07	68	67	62		"	"	6	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday June 4th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light variable airs. Moonlight. Aneroid 30.28.

Wainwright Kellogg
wk Lieut

4 to 8 A.M. Weather pleasant. Light breeze from N.N.E to E.N.E. Barometer rising. Got up anchor at 4^{30} and stood out of Yobuko Harbor, and at 5^{07} put the ship on the course W¼S. Hato Saki point bearing South distant ½ mile, At 6^{48} changed course to West, at 7^{23} to SW½W and at 7^{40} to SW¾W. At 7^{30} put patent log over, it showing 2.3 miles and at 8 it showed 6.6 miles, Under steam, pressure 39 lbs and making 47 revolutions. Captain on deck piloting the ship and directing courses. Aneroid barometer 30.32.

Karl Rohrer, Lieut

8 A.M to Meridian. Weather partly cloudy and hazy. Light airs from Ed. Barometer steady. Coasting along Hirado Sima and adjacent Islands, Set fore topsail at 8^{45}. Took in and furled fore topsail and main trysail at 11^{00}. At end of watch Kotati I. bore N½E. and Hikko Sima SE½S. Aneroid 30.38. Steam 48. Revs 46

Lieut

Meridian to 4 P.M. Cloudy and warm. Light breezes varying from East to S.W. At 12^{25} set main trysail, At 12^{45} changed course to SE ¾E. At 1^{30} took in foresail, At 2^{30} took in all fore and aft sail. At 2^{40} changed course to SE by E½E. During watch standing in for Nagasaki Harbor. At 2^{55} called all hands bring ship to anchor. Slowed down at 3^{15} stopped at 3^{25} and let go port anchor at 3^{35} in five fathoms water veering to 20 fathoms chain. Bearings. Kasaki Pt SW¼S; Cruik S by E¼E. Ships Head. S.S.W. Draft 13 ft. forward, 15 ft aft. Sent an officer to call on U S Consul General and received official visits from Russian, British and German men of war tendering the usual courtesies. Aneroid barometer 30.28.

W.H.
wh Lieut

4 to 8 P.M. Cloudy first hour then clearing. Light airs to light breeze from S.S.W. At 4^{30} hauled fires, At 6^{30} took off mast and yard covers, and unbent main trysail and fore topmast staysail. At 6^{50} sent down topgallant and royal yards, and unbent light sails. Secured cable, Aneroid barometer 30.24.

R. O. Bitler Ensign

8 P.M to Midnight, Pleasant weather, bright moonlight, Gentle breeze from NE. Aneroid barometer 30.28.

W.H. Lieut

Moon's mid.
Dec. 10° 28' 29" S.
Phase, 1st Qr

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Nagasaki. Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N × E.	N × E.	1		30.05	65	63	60		bc	Cir Cum	6	S	
2	"		"	"	1		30.05	65	63	60		"	"	6	"	
3	"		"	"	1		30.05	65	62	60		"	"	5	"	
4	"		"	"	1		30.05	65	62	60		"	"	5	"	
5	"		"	Calm	0		30.05	64	61	60		"	"	5	"	
6	"		"	"	0		30.05	64	61	59		"	Cirro Cir cum	3	"	
7	"		"	N × E.	1		30.06	65	63	61		"	"	2	"	
8	"		"	"	1		30.07	66	65	62		"	"	3	"	
9	"		N N E	Calm	0		30.08	69	69	65		"	Cir & Cum	8	"	
10	"		"	S S E	2		30.08	70	70	66		"	"	8	"	
11	"		"	"	1		30.08	70	70	66		"	"	7	"	
Noon.	"		"	"	1		30.08	71	72	66		"	"	5	"	

Distance run by Log since preceding Noon 24 knots 0 ~~fathoms~~ tenths.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1300 "

Coal consumed during the preceding 24 hours 10 tons 1540 lbs.

Coal remaining on hand at Noon 55 " 400 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		W S W	S W by W.	1		30.07	73	73	67		bc	Cir Cum & Cum	5	S	
2	"		"	"	1		30.06	74	75	68		"	"	5	"	
3	"		"	"	1		30.05	75	75	67		"	"	6	"	
4	"		S W by S	S. W.	1		30.04	75	75	67		"	"	6	"	
5	"		"	"	1		30.03	74	75	67		"	"	7	"	
6	"		S W.	"	1		30.03	74	73	68		"	"	4	"	
7	"		"	"	1		30.03	74	73	68		"	"	3	"	
8	"		"	"	1		30.03	74	73	68		"	"	1	"	
9	"		North	Calm	0		30.05	72	73	68		"	"	4	"	
10	"		"	"	0		30.07	72	72	67		"	"	3	"	
11	"		"	"	0		30.08	72	71	67		"	"	3	"	
Mid.	"		"	"	0		30.08	71	71	66		"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday June 5th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, Light airs from N by E. Aneroid 30.28.
Wainwright Kellogg
WK Lieut

4 to 8. A.M. Cloudy and pleasant. Calm first two hours, then light airs from N by E. At 7^{40} crossed topgallant yards. Aneroid bar. 30.29.
R.O. Bitler Ensign.

8 A.M. to Meridian. Pleasant weather, Calm first hour, light breeze from S.S.E. rest of watch. Mustered at quarters at 9.30. Exercised 1st division at howitzer, 2d division at skirmishing, 3d division with the Gatting Gun. Powder division at powder exercise and Marine Guard at small arms. Commanding Officer left the ship to pay official visits. Paid crew monthly money. Aneroid barometer 30.26.
W.M. Irwin
wmI Lieut

Meridian to 4 P.M. Clear and pleasant, Light breeze from S.W by S. Commenced distilling. Commanding Officer paid official visits to English, Russian, and German men of war in harbor. Aneroid 30.20
Wainwright Kellogg Lieut

4 to 8. P.M. Pleasant weather. Light airs from S.W. Mustered at quarters at 4^{45} Received an official visit from Captain of H.B.M. Ship "Cleopatra". At 5^{50} sent down topgallant yards. Aneroid barometer 30.20
W.M. Irwin Lieut

8 P.M. to Midnight, Clear and pleasant, Light variable airs and calms. Aneroid 30.20.
Wainwright Kellogg
WK Lieut

Moon I mid Examined and found to be correct.
Dec 13° 27' 21" S.
Phase, 1st Qr

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" + 3d Rate, 6 Guns,

Nagasaki, Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N.	Calm	0		30.06	72	70	67		bc	Cir Cum & Cum	5	S	
2	"		"	"	0		30.06	72	70	67		"	"	3	"	
3	"		"	"	0		30.06	72	70	67		"	"	6	"	
4	"		"	N.	1		30.07	72	69	66		"	Cir	8	"	
5	"		"	"	1		30.05	68	65	63		"	Cir Cum & Cum	4	"	
6	"		"	"	1		30.04	68	66	64		"	"	4	"	
7	"		N.N.E.	Calm	0		30.06	68	67	64		"	"	4	"	
8	"		"	N×E.	1		30.06	68	67	64		"	"	4	"	
9	"		"	"	1		30.08	71	72	67		"	"	5	"	
10	"		S. E.	S.S.E.	1		30.08	73	74	67		"	"	6	"	
11	"		"	"	1		30.08	74	74	67		"	"	6	"	
Noon.	"		"	"	1		30.08	75	75	67		"	"	6	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 850 gallons.

Water distilled during the preceding 24 hours 2150 "

Water remaining on hand fit for use at Noon 3100 "

Coal consumed during the preceding 24 hours 2 tons 1420 lbs.

Coal remaining on hand at Noon 52 " 1220 "

P. M.																
1	"		S.W×W	S.W.	0-1		30.08	76	77	69		bc	Cir Cum	5	"	
2	"		"	"	0-2		30.07	77	77	70		"	"	5	"	
3	"		"	"	2		30.07	77	78	70		"	"	5	"	
4	"		"	"	1		30.07	77	78	70		"	"	5	"	
5	"		"	"	1		30.07	77	78	70		"	"	6	"	
6	"		S.W.	W	1		30.07	77	76	68		"	"	7	"	
7	"		W.N.W.	Calm	0		30.07	77	76	68		"	"	8	"	
8	"		"	S.W	1		30.06	76	74	69		"	"	9	"	
9	"		N.	Calm	0		30.06	75	74	69		"	"	6	"	
10	"		"	"	0		30.06	74	73	68		"	"	4	"	
11	"		N.E.	"	0		30.06	74	72	67		"	"	4	"	
Mid.	"		"	"	0		30.06	73	72	67		"	"	6	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer from Observations * ° ' "

Variation of the Compass by Amplitude observed at sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,

Friday June 6th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Fair, cool, and calm. Barometer steady. Distilling. Aneroid 30.22.

W. C. McGuire Ensign

4 to 8 A.M. Mostly cloudy. Light airs from North, and calms. At 7^{30} crossed topgallant yards. Aneroid barometer 30.20. W. H. Irwin

wmb Lieut

8 A.M. to Meridian, Clear and warm, Light variable airs. At 9^{30} went to general quarters and exercised all divisions. Received official visits from German Commodore and Captain of German Flagship Stosch, and from U.S. Consul. Aneroid 30.22. A reward of ten dollars was paid for the apprehension of Matthew Reilly. "Lds" Distilling

Wainwright Kellogg Lieut

Meridian to 4 P.M. Warm with calms and light winds from S.W. Barometer falling slowly. Received official visits from H.B.M. Consul; Commanding Officers of German gunboat "Iltis" of Russian corvettes Nyadzdorick, and Abrick, and Russian Flagship Minine Aneroid 30.18.

W. C. McGuire Ensign

4 to 8 P.M. Clear and pleasant, Light variable airs and calms. At 4^{45} mustered crew at quarters. Received an official visit from ~~Commanding Officer~~ German man of war, Aneroid 30.21. Wainwright Kellogg

LOK Lieut

8 P.M. to Midnight. Fair, pleasant and calm, Barometer steady. Aneroid 30.22. By order of Commanding Officer placed Hardey Lake. (Pvt) in double irons under sentry's charge for safe keeping.

W. C. McGuire Ensign

Moon's mid. Examined and found to be correct.

Dec

Phase

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate, 6 Guns,

Nagasaki, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
	Anchored		N N E	N E	1		30.05	73	70	67		bc	ci	9	S	
2	"		"	"	0-1		30.05	73	70	67		"	"	9	"	
3	"		"	"	0-1		30.05	72	70	67		"	"	8	"	
4	"		"	"	0-1		30.05	72	70	67		"	"	8	"	
5	"		W.	N.	1		30.05	68	68	67		"	"	8	"	
6	"		S W.	"	1		30.05	68	68	64		bcf	"	9	"	
7	"		"	"	1		30.05	70	68	65		"	"	9	"	
8	"		"	"	1		30.05	70	68	65		"	"	9	"	
9	On dry dock			E S E	1		30.07	73	72	68		"	"	9	"	
10	"			"	1		30.07	73	74	70		bc	"	9	"	
11	"			"	1		30.07	75	76	70		"	"	8	"	
Noon.	"			"	1		30.07	75	76	70		"	"	8	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2800 "

Coal consumed during the preceding 24 hours 2 tons 2080 lbs.

Coal remaining on hand at Noon 49 " 1380 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather.	Forms of Clouds.	Prop. of Clear Sky.	State of the Sea.	Record of the sail.
P. M.																
1	"			S W	1		30.08	75	76	69		bc	ci cum	8	S	
2	"			"	2		30.06	75	76	69		"	"	8	"	
3	"			"	1		30.05	76	76	69		"	"	8	"	
4	"			"	1		30.05	76	76	69		"	"	8	"	
5	"			"	1		30.03	77	76	70		"	"	7	"	
6	"			"	0-1		30.02	77	76	70		"	"	6	"	
7	"			"	0-1		30.01	78	77	70		"	"	5	"	
8	"			Calm	0		30.01	76	77	70		"	"	7	"	
9	"			"	0		30.05	74	73	69		"	"	6	"	
10	"			"	0		30.05	74	73	69		"	"	7	"	
11	"			"	0		30.05	74	73	69		"	"	7	"	
Mid.	"			"	0		30.05	73	72	67		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Saturday, June 7th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Light breeze from N.E. Barometer steady. Cirrus clouds. Fires banked under two boilers until 3^{50} when they were spread. Aneroid barometer 30.22

Hal Wohlner, Lieut

4 to 8 A.M. Clear and warm. Light breeze from Nd. At 5^{00} called all hands up anchor. Hove up port anchor and steamed to entrance of dry dock. At 6 hauled into dock and banked fires. Aneroid 30.26.

Wainwright Kellogg Lieut

8 A.M. until Meridian. Clear and pleasant. Light E.S.E. airs. Steady barometer. Dock authorities pumped out water and secured ship on the blocks. At 9^{30} went to quarters after which had battalion exercise on shore. Received official visit from Comdg Officer of "Prinz Adelbert." Geo. W. Jones. "O.S." returned on board drunk from absence without leave and was by order of Comdg Officer placed in double irons under sentry's charge. Aneroid 30.22.

W. H. Mair Ensign

Meridian to 4 P.M. Weather clear and pleasant. Light breeze from S.W. Barometer falling. Cirrus and cumulus clouds. Ship in dry dock. Engineers Force and workmen from dockyard repairing valves and pipes connected with the outside. By order of Comdg Officer confined in double irons for safe keeping, they being drunk, the following named men: Jas. Cameron (C.F.C.) H. Gilbert (S.M.H.) and Matthew Reilly (Lds). Jas. Cameron (C.F.C.) was brought on board by the U.S. Deputy Marshal, and a reward of $10^{00} was paid therefor. Aneroid barometer 30.18.

Hal Wohlner Lieut

4 to 8 P.M. Clear and pleasant. Calm to light S.W. airs. Barometer falling slowly. Engineers Force and workmen from shore repairing valves and pipes from the outside. Aneroid at end of watch 30.19

W. H. Mair Ensign

8 P.M. to Midnight. Weather clear and pleasant. Calm. Barometer steady. Aneroid barometer 30.20.

Hal Wohlner, Lieut

Moon at mid
Dec 17° 36' 56. S.
Phase, 1st Qr.

Examined and found to be correct.

W. J. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Nagasaki, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	In dry dock			Calm	0		30.05	70	70	66		bc	Cir & Cum	7	S	
2		"		"	0		30.05	70	70	66		"	"	6	"	
3		"		"	0		30.05	70	69	65		"	"	7	"	
4		"		"	0		30.05	70	69	65		"	"	7	"	
5		"		"	0		30.05	72	69	65		"	"	7	"	
6		"		"	0		30.05	72	69	65		"	"	7	"	
7		"		"	0		30.05	72	69	65		"	"	8	"	
8		"		"	0		30.05	72	69	63		"	"	7	"	
9		"		"	0		30.05	74	72	67		"	"	4	"	
10		"		"	0		30.05	76	74	67		"	Cum & Cir Cum	4	"	
11		"		South	1		30.05	76	76	68		"	"	4	"	
Noon.		"		"	1		30.05	76	78	70		"	"	3	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2450 "

Coal consumed during the preceding 24 hours 1 tons 2010 lbs.

Coal remaining on hand at Noon 47 " 1610 "

P. M.																
1	"			Variable	1		30.04	79	80	70		bc	Cir & Cum	6	"	
2	"			"	1		30.03	78	79	70		"	"	6	"	
3	"			"	1		30.03	77	78	70		"	"	5	"	
4	"			"	1		30.03	77	77	70		"	"	4	"	
5	"			S.S.W.	1		30.03	77	77	70		"	"	3	"	
6	"			"	1		30.01	77	76	69		"	Cirro Cum St	5	"	
7	"			"	1		30.00	76	76	69		"	"	4	"	
8	"			"	1		29.99	75	75	69		"	Cum & Cir Cum	6	"	
9	"			Calm	0		29.99	75	75	69		"	"	6	"	
10	"			E.S.E.	1		29.99	75	76	68		"	Cir Cum	6	"	
11	"			"	1		29.99	75	76	68		"	"	6	"	
Mid.	"			"	1		30.00	76	75	68		"	"	5	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Sunday, June 8, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and pleasant. Calm. Barometer steady. Aneroid at end of watch 30.20.

C. Rees Lieut

4 to 8 A.M. Clear, calm and pleasant. Steady barometer. Aneroid at end of watch 30.19.

H. C. Muir Ensign

8 A.M. to Meridian. Weather clear and pleasant. Light breeze from South in latter part of watch. Barometer steady. At 9³⁰ the Captain inspected the ship and the crew at quarters: Found John Flaherty (1C.F.) Wm Toole (2C.F.), T. J. Wynne (1C.M.) John C. Whitcomb (2C.M.) and J. M. Schluter (Lds) absent from ship without leave and sent an offer of $10.00 reward, each for their delivery on board. By order of Captain released James Cameron (C.B.) from confinement and confined John Flaherty (1C.F.) who returned on board drunk, in double irons for safe keeping. Wm Toole (2C.F.) and J. C. Whitcomb (2C.M.) returned to the ship. Aneroid Barometer 30.19. Thos J. Wynne (1C.M.) was brought on board by the U.S. Deputy Marshal and by order of Captain was confined in double irons for safe keeping.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather clear and warm. Light variable airs and calms. Barometer steady. Sent an officer to board the Japanese man of war "Riding" with the usual offer of civilities. A Lieutenant from the "Riding" came on board at 1.40 to return thanks for courtesies. Aneroid at end of watch 30.14

C. Rees Lieut

4 to 8 P.M. Weather clear and pleasant. ~~Light breeze from S.E.~~ Barometer steady. Released John Flaherty (1C.F.) from confinement by order of Captain. The mail steamer from Yokohama came in and took her buoy. Aneroid barometer 30.15.

Karl Rohrer, Lieut

8 P.M. to Midnight. Weather clear and pleasant. Bright moonlight, Light airs from E.S.E. Barometer steady. Aneroid at end of watch 30.12.

C. Rees Lieut

Moon's Merid. Examined and found to be correct.
Dec 18° 36' 30" S.
Phase. 1st Qr.

W. F. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Nagasaki. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	In dry dock			Calm	0		29.99	75	76	67		bc	Ci cum	6	S	
2		"		"	0		29.99	75	75	67		"	"	6	"	
3		"		S.E.	1		30.00	75	75	67		"	Cir Cum & Cum	5	"	
4		"		"	1		29.99	76	76	66		"	"	5	"	
5		"		"	1		29.94	75	75	68		"	"	6	"	
6		"		E.S.E.	1		29.92	74	74	68		"	"	4	"	
7		"		"	1		29.92	75	74	68		"	"	6	"	
8		"		"	1		29.92	75	75	69		"	"	7	"	
9		"		Calm	0		29.92	75	75	69		"	"	6	"	
10		"		"	0		29.92	79	76	70		"	"	7	"	
11		"		S.E.	1		29.92	82	81	74		"	"	6	"	
Noon.		"		"	1		29.92	82	82	74		"	"	7	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon *2150* "

Coal consumed during the preceding 24 hours tons *400* lbs.

Coal remaining on hand at Noon *47* " *1210* "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1		"		Calm	0		29.92	81	82	74		bc	Ci cum	7	"	
2		"		S.W.	1		29.92	81	82	75		"	"	7	"	
3		"		"	0-1		29.90	80	79	75		bcp	"	4	"	
4		"		Calm	0		29.87	80	81	75		bc	"	7	"	
5	Anchored		S E	S.W.	1		29.87	80	81	75		"	"	7	"	
6	"		"	"	1		29.86	82	79	73		"	"	5	"	
7	"		"	"	1		29.86	82	79	73		"	"	5	"	
8	"		"	"	1		29.86	80	79	73		"	"	6	"	
9	"		"	S E	1		29.85	78	78	70		"	"	4	"	
10	"		"	"	1-3		29.85	78	78	70		"	"	7	"	
11	"		"	"	2		29.85	78	77	70		"	"	5	"	
Mid.	"		"	"	1-2		29.85	78	76	70		"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick), U. S. Navy;
Monday June 9. , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm and light S. E airs. Aneroid barometer 30.11.

R. O. Bitler Ensign

4 to 8 A.M. Weather clear and pleasant. Light breeze from S E to E S E. Barometer steady. Aneroid barometer 30.09

Hd Roberts, Lieut

8 A.M. to Meridian. Weather clear and hot. Light variable airs and calms. Barometer steady. Mustered at quarters at 9^30 and exercised at battalion and company drill on shore. Dock yard people and ships mechanics at work making repairs on valves and copper sheathing. The Commanding Officer left the ship to make official visits at 10.45. Aneroid at end of watch 30.06. Patrick McKeon (1 C Fire) and Thos. Noon (2 C Fire) were brought on board by Deputy Marshal. Placed Patrick McKeon (1 C Fire) in double irons for safe keeping. The Commanding Officer returned at 11^50 from visiting British Consul and the Paymaster in charge of the U S Naval Storehouse.

Lieut

Meridian to 4 P.M. Clear and pleasant except third hour when had a light passing shower. At 2.15 commenced filling dock with water and making preparations for going out of dock. Started fires under two boilers at 3.30. By order of Commanding Officer confined W. Toole (2 C F) in double irons. Aneroid barometer 29.97.

R. O. Bitler Ensign

4 to 8 P.M. Weather clear and warm. Light variable airs and calms. Barometer steady. At 4^40 hauled out of dry dock and made fast to buoy. Slipped buoy at 6^37 and started ahead under steam. Swung around and came into harbor, anchoring at 7.25 in 7 fathoms water and veering to 15 fathoms chain at waters edge. Bearings. Bridge E S E. Kavaki Point S W ½ S. Ships head N E. Released P. McKeon "1 C F" from confinement.

Lieut

8 P.M. to Midnight. Cloudy. Light airs to gentle breeze from S E. Aneroid 30.00.

R. O. Bitler Ensign

Moon l mid Examined and found to be correct.
Dec. 18° 46′ 46″ S.
Phase. Full moon.

Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate, 6 Guns,

Nagasaki. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			S E × E	S E × E.	2-4		29.82	76	75	70		ocqd.	Cir Cum & nimb	0	S	
2	″		″	″	2-4		29.82	76	75	70		ocqp.	″	0	″	
3	″		S.	S.	2-5		29.82	75	74	71		bcq	″	0	″	
4	″		″	″	3-5		29.82	75	74	71		″	″	0	″	
5	″		″	S. S. W.	3-5		29.83	76	74	71		bcq	″	1	″	
6	″		″	″	3-4		29.86	76	73	71		″	″	1	″	
7	″		″	″	2-3		29.86	76	73	71		″	″	1	″	
8	″		″	″	3		29.86	76	73	71		″	″	1	″	
9	″		S S W.	″	4		29.86	76	75	71		bc	″	3	″	
10	″		″	″	3		29.88	77	76	72		″	″	2	″	
11	″		″	″	3		29.90	77	76	71		″	Cir Cum	4	″	
Noon.	″		″	″	3		29.92	77	75	71		″	″	4	″	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1800 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 47 " 810 "

P. M.																
1	″		S. W.	S. W × S	3		29.92	80	77	71		bc	Cir Cum	3	″	
2	″		″	″	3		29.92	80	77	71		″	″	2	″	
3	″		″	″	3		29.92	78	77	70		″	″	3	″	
4	″		″	″	3		29.92	78	77	70		″	″	2	″	
5	″		S. S. W.	S. S. W.	3		29.90	77	76	70		ocp.	″	0	″	
6	″		S × W.	″	3		29.90	77	75	69		oc	Cir Cum & nimb	0	″	
7	″		″	″	3		29.90	77	73	69		ocp.	″	0	″	
8	″		″	″	2		29.90	76	74	69		ocr	″	0	″	
9	″		″	″	3-4		29.90	76	74	70		ocqp.	″	0	″	
10	″		″	″	2		29.90	76	74	71		ocp.	″	0	″	
11	″		W × S.	″	3		29.90	75	72	69		″	Cum & nimb	0	″	
Mid.	″		″	″	2		29.90	74	72	69		ocr	″	0	″	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Tuesday June 10th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy. Wind fresh and squally from S E by E to South. Light airs first part. Aneroid bar. 30.00.

W.M. Irvin Lieut

4 to 8 A.M. Weather overcast and squally. Wind from Sd and Wd, Barometer rising. Veered to 30 fathoms outside hawsepipe at 4.45. Began coaling ship at 7.00. Aneroid at end of watch 30.04.

Rhea Lieut

8 A.M. to Meridian. Cloudy. Gentle to moderate breeze from S.S.W. By order of Comdg Officer. Thos. J. Wynne (1 C Mach) was disrated to 3d Cl. Machinist for being absent without leave. Geo W. Jones (O.S.) was disrated to 1st Class Boy for same offence. Wm. Toole (2 C F) was given 5 days solitary confinement on bread and water for same. H. Gilbert (S.M.M.) was given 5 days in double irons for being drunk on board ship. Matthew Reilly (Lds) 5 days in double irons for same offence. H. Lake (P.M.) was placed in double irons to await trial by Court martial for being drunk, disorderly and using abusive and obscene language. Finished coaling having taken in altogether 76 tons. Comdg Officer of Russian transport paid a visit to this ship. Aneroid barometer 30.05.

R.O. Bitler Ensign.

Meridian to 4 P.M. Cloudy and sultry. Gentle breeze from S W by S. A Russian transport left the harbor. Aneroid barometer 30.06.

W.M. Irvin Lieut

4 to 8 P.M. Overcast. Gentle breeze from S. S. W. Passing rain showers during watch. Received in Pay Dept. the following stores: viz. 10 Bbls Beef, 2 Bbls of Rice, 2 Bbls of Molasses; 2 Bbls of Vinegar; 2 Kegs of Pickles; 11 cases of Tomatoes; 8 cases of preserved meat, 5 boxes of tobacco, and 7 boxes of Soap. At 4.30 sent down topgallant yards. At 4.35 went to quarters and served out clean hammocks. At 4.45 half masted colors, following motion of German Flagship. Aneroid barometer 30.07.

R.O. Bitler Ensign

8 P.M. to Midnight. Overcast cloudy and rainy. Moderate breeze from S. S. W. with occasional puffs. Aneroid barometer 30.08.

W.M. Irvin Lieut

Moon Merid. Examined and found to be correct.
Dec 18° 56' 10'' S
Phase. Full moon

B. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Nagasaki. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			S.W.	W	1		29.90	73	71	69		ocr	Cumu & Nimb	0	S	
2	〃		〃	〃	1		29.90	73	71	69		〃	〃	0	〃	
3	〃		W	〃	1		29.90	72	70	68		〃	〃	0	〃	
4	〃		〃	〃	1		29.90	72	70	68		〃	〃	0	〃	
5	〃		〃	〃	1		29.90	72	69	67		oc	〃	0	〃	
6	〃		〃	〃	1		29.92	72	68	65		〃	〃	0	〃	
7	〃		〃	〃	1		29.92	72	68	64		〃	〃	0	〃	
8	〃		W by N.	Calm	0		29.96	72	68	64		〃	〃	0	〃	
9	〃		〃	〃	0		29.96	72	68	64		bc	Cir Cum	2	〃	
10	〃		S.S.W.	S.S.W.	1		29.98	73	69	64		〃	〃	3	〃	
11	〃		〃	〃	1		30.00	75	71	68		〃	〃	4	〃	
Noon.	〃		〃	〃	1		30.02	75	71	68		〃	〃	5	〃	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1500 "

Coal consumed during the preceding 24 hours tons 1280 lbs.

Coal remaining on hand at Noon 122 " 1590 "

P. M.															
1	〃		S.S.W.	S.S.W.	2		30.02	74	72	67		bc	Cir & Cum	7	〃
2	〃		〃	〃	2		30.02	74	73	68		〃	〃	7	〃
3	〃		〃	〃	2		30.02	74	73	68		〃	〃	7	〃
4	〃		〃	〃	2		30.02	75	74	68		〃	〃	8	〃
5	〃		S.W.	S.W.	1		30.02	76	74	68		〃	〃	4	〃
6	〃		〃	〃	1		30.02	76	74	68		〃	〃	4	〃
7	〃		〃	〃	1		30.02	76	72	67		〃	〃	6	〃
8	〃		〃	〃	1		30.02	75	71	67		〃	〃	7	〃
9	〃		〃	Calm	0		30.04	75	72	69		〃	〃	9	〃
10	〃		N.W.	〃	0		30.02	73	72	69		〃	〃	9	〃
11	〃		N.E.	〃	0		30.01	73	71	67		〃	〃	9	〃
Mid.	〃		E.N.E.	〃	0		30.01	72	71	67		〃	〃	9	〃

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy;

Wednesday June 11th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast cloudy and rainy. Light airs from West. Barometer steady. Aneroid 30.10.

Wainwright Kellogg Lieut.

4 to 8 A.M. Overcast and cloudy. Light westerly airs and calm. At 7.15 crossed topgallant and royal yards. Aneroid barometer 30.17 at end of watch.

R. G. Butler Ensign

8 A.M. to Meridian. Cloudy pleasant. Calm first part, light airs from S.S.W. remainder of watch. At 8⁴⁵ loosed sail to dry. At 9³⁰ inspected at quarters. At 9⁴⁰ called all hands, and made all preparations for sending down lower yards and housing topmasts. Secured at 10⁰⁰. Received on board in Paymaster's Department three barrels of pork. Commanding Officer left the ship to pay official visits. By order of Comdg Officer John A. Coban. (OS) was given 12 hours extra duty for not going into boat when called away and lying: Wm. F. Davis. OS for drunkenness on duty was given 40 hours extra duty. Aneroid barometer 30.18.

W. M. Irwin Lieut

Meridian to 4. P.M. Clear and pleasant. Light breeze from S.S.W. At 1⁰⁰ furled sail. Received an official visit from Commanding Officer of Japanese gunboat. Aneroid 30.20.

Wainwright Kellogg
WK Lieut

4 to 8 P.M. Clear and pleasant. Light airs from S.W. Mustered at quarters at 4⁴⁵. At 6³⁰ H.B.M.S. "Sapphire" came in anchored and fired a national salute with the Japanese flag at the main, to which the fort on shore responded gun for gun. At sunset sent down topgallant and royal yards. Aneroid barometer 30.20.

W. M. Irwin
WMI Lieut

8 P.M. to Midnight. Clear and pleasant. Light variable airs and calms. Bright moonlight. Aneroid 30.20.

Wainwright Kellogg
WK Lieut

Moon Semid Examined and found to be correct.
Dec
Phase

W. J. L. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" ; 3d Rate, 6 Guns,

Nagasaki. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			N.N.E.	Calm	0		30.03	70	69	66		bc	Cir	9	S	
2	"		"	"	0		30.03	69	68	65		"	"	9	"	
3	"		"	"	0		30.03	69	68	65		"	"	9	"	
4	"		"	"	0		30.03	69	67	64		"	"	8	"	
5	"		"	N.N.E.	1		30.03	68	65	64		"	"	8	"	
6	"		"	"	1		30.03	68	66	64		"	"	8	"	
7	"		"	"	1		30.03	71	68	66		"	"	8	"	
8	"		"	"	1		30.03	71	70	68		"	"	8	"	
9	"		"	Calm	0		30.03	74	73	70		"	"	8	"	
10	"		"	"	0		30.00	74	74	71		"	"	8	"	
11	"		S.W.	S.W.	1		30.00	74	74	71		"	"	8	"	
Noon.	"		"	"	1		30.00	76	75	71		"	"	8	"	

Distance run by Log since preceding Noon knots. fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

*Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1200 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 122 " 1190 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		S.W.	S.W.	1		30.02	76	76	71		bc	Cir	9	"	
2	"		"	"	2		30.02	76	76	71		"	"	9	"	
3	"		"	W.S.W.	3		30.00	76	78	72		"	"	9	"	
4	"		"	"	3		30.00	78	78	72		"	Cir Cum	8	"	
5	"		"	S.S.W.	2		30.00	78	77	72		"	"	7	"	
6	"		"	"	2		29.99	78	76	72		"	"	6	"	
7	"		"	"	1		29.99	77	76	70		"	Cir Str	5	"	
8	"		S	"	1		29.97	75	75	70		"	"	5	"	
9	"		"	"	1		29.95	75	74	69		"	Cir Cum	4	"	
10	"		E.S.E.	Calm	0		29.95	74	74	69		"	"	4	"	
11	"		E.	N.W.	1		29.94	73	73	69		"	"	2	"	
Mid.	"		"	"	1		29.94	73	73	69		"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Thursday June 12. , 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, cool and calm. Barometer steady Aneroid at 4 A.M. 30.22.

W. C. P. Muir Ensign

4 to 8 A.M. Pleasant weather. Light airs from N. N. E. At 6^{00} Japanese Gunboat got underway and left the harbor. At 7^{00} crossed top gallant and royal yards. Received in Paymaster's Department for use of crew 146 lbs of fresh beef and vegetables and 112 loaves of bread. Aneroid barometer 30.22

W. H. Irwin Lieut

8 A.M to Meridian, Clear and warm, Light variable airs and calms. At 9^{30} mustered at quarters. Exercised all divisions at company drill, Received an official visit from Commanding Officer of H. B. M. S. "Sapphire". A Summary Courtmartial consisting of Lieuts. Parker, Kellogg and Ains and 1st Lieut Berryman U.S.M.C. for the trial of Private Harvey Lake, U.S.M.C. convened on board, One English and two German men of war went to sea, Aneroid 30.18.

Wainwright Kellogg
wmd Lieut

Meridian to 4 P.M. Clear and warm, Light S.W. airs increasing to gentle winds and hauling to WSW. latter part of watch. Barometer falling. At 1 P.M. called all hands to muster and read a letter from the Judge Advocate General of the Navy, approving sentence of Summary Courtmartial in case of John McCann (2CH) and a letter from the Hon. Sec. of the Navy commending the gallant conduct of George Hittinger (OS) in rescuing a shipmate from drowning. Received on board in Equipment and Recruiting Department one bolt hammock canvas and 55 lbs. Rope, 4str., 2¾" Aneroid at end of watch 30.12

W. C. P. Muir Ensign

4 to 8 P.M. Clear and pleasant. Light breeze from S. S. E. Mustered at quarters at 4.45. At 7^{30} sent down top gallant and royal yards. Aneroid 30.12.

Wainwright Kellogg
WK Lieut

8 P.M to Midnight, Fair and pleasant, Calm to light airs from N.W. Barometer falling. Aneroid at end of watch 30.11.

W. C. P. Muir Ensign

Moon's mid Examined and found to be correct.
Dec 14° 19' 37" S.
Phase Full moon,

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,
Nagasaki. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			E.N.E.	S.E.	2		29.94	73	75	72		bc	Ci Cum & Cum	2	S	
2	"		E.S.E.	"	2		29.93	73	75	72		"	"	1	"	
3	"		"	"	1		29.92	73	75	72		oc	"	0	"	
4	"		"	"	1		29.92	73	75	72		bc	"	1	"	
5	"		"	"	1		29.90	74	74	71		"	Ci Cum & nimb	1	"	
6	"		S.E.	"	1		29.90	74	73	70		"	"	1	"	
7	"		"	E.S.E.	1		29.90	74	73	70		ocp	"	0	"	
8	"		"	"	1		29.90	74	73	70		"	"	0	"	
9	"		S.S.E.	S.S.E	1		29.88	73	72	69		oc	"	0	"	
10	"		"	"	1		29.86	74	73	70		ocd	"	0	"	
11	"		E.S.E	E.S.E.	1		29.85	74	74	71		oc	"	0	"	
Noon.	"		"	"	1		29.84	74	74	71		bc	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 900 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 122 " 790 "

P. M.																
1	"		N×E	N.E.	1		29.84	75	76	73		ocr	Cum & Ci Cum	0	"	
2	"		"	"	1		29.81	75	74	73		"	"	0	"	
3	"		S.×E.	S.E	2-4		29.80	73	73	72		ocqr	"	0	"	
4	"		"	"	2-4		29.80	73	73	72		"	"	0	"	
5	"		E.N.E.	"	2		29.76	73	73	72		bc	"	2	"	
6	"		"	"	1		29.70	75	73	71		"	"	4	"	
7	"		"	"	1		29.70	75	75	71		"	"	2	"	
8	"		"	"	1		29.70	75	75	71		"	"	6	"	
9	"		S.S.W.	"	1		29.72	72	73	70		"	"	4	"	
10	"		"	N.E.	1		29.72	72	73	70		bcl	"	6	"	
11	"		N.	"	1		29.72	72	72	71		"	"	6	"	
Mid.	"		"	"	1		29.74	71	71	69		ocd	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at Sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Friday. June 13, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear, and pleasant. Light breeze from S.E. Barometer falling. Aneroid barometer 30.07.

Karl Rohrer, Lieut

4 to 8 A.M. Cloudy. Sultry. Drizzling rain last hour of watch. Aneroid 30.05.

Wainwright Kellogg
WK Lieut

8 A.M to Meridian. Overcast and threatening. Light airs from S.S.E. to E.S.E. Barometer falling slowly. At 9.30 went to quarters and had divisional instruction. At 9.15 sighted U.S.S. "Alert" coming in with her numbers flying. Made our number. "Alert" made signal Int. 1211. Ans 904. "Alert" anchored at 9.50, and at 11.0 made Int. 4557. Recd official visit from Comdg Officer of "Alert". Commanding Officer paid an official visit on board H. M. S. "Sapphire", and U.S.S. "Alert". Aneroid 30.00

W. C. M[illegible] Ensign.

Meridian to 4 P.M. Weather overcast, squally and rainy. Breeze light to moderate in squalls from NE to SE. Barometer falling. Discharged John McCann Lds at his own request. Aneroid barometer 29.97.

Karl Rohrer, Lieut

4 to 8 P.M. Clearing weather. Light S.E airs. Falling barometer first half of watch, steady latter half. At 5.24 went to fire quarters. Secured at 5.39 Went to quarters for muster at 4.45. At 5.50 crossed topgallant yards. Aneroid at end of watch 29.92.

W. C. M[illegible] Ensign

8 P.M to Midnight. Clear and pleasant first part of watch, overcast and cloudy in latter part with passing showers of rain. Light breeze from S E to N E. Barometer rising. The mail steamer for Yokohama got underway and left the port. Aneroid barometer 29.95

Karl Rohrer, Lieut

Moon l mid
Dec 11° 21′ 34″ S.
Phase, Full moon.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate, 6 Guns,

Nagasaki, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N.N.E.	N.E.	1		29.74	72	71	69		ocd	Ci Cum & Cum	0	S.	
2	"		"	"	1		29.72	72	71	69		oc	"	0	"	
3	"		"	"	1		29.71	72	71	69		bc	"	3	"	
4	"		"	"	1		29.71	72	71	69		"	"	3	"	
5	"		E.	S.E.	1		29.73	72	71	69		ocd	"	0	"	
6	"		"	"	1		29.74	72	71	69		bc	Ci Cum & Cumuli	1	"	
7	"		"	"	1		29.74	72	71	69		"	"	3	"	
8	"		S.E.	"	1		29.74	72	71	69		"	"	3	"	
9	"		S.W.	S.W.	1		29.74	72	71	69		"	"	3	"	
10	"		"	"	2		29.74	72	72	70		"	"	5	"	
11	"		"	"	2		29.74	73	73	70		"	"	4	"	
Noon.	"		"	"	2		29.74	74	73	71		"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 600 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 122 " 390 "

P. M.																
1	"		S.W.	S.W.	1		29.74	75	75	72		bc	Cum & Cir cum	4	S	
2	"		"	"	1		29.74	75	75	72		"	"	6	"	
3	"		"	"	1		29.74	75	75	71		"	"	4	"	
4	"		"	"	1		29.74	75	75	71		"	"	6	"	
5	"		"	"	2		29.74	75	75	71		"	"	5	"	
6	"		N×W.	N×W	3		29.74	75	73	68		"	"	4	"	
7	"		N.	N.	4		29.74	73	70	65		"	Ci Cum Strat	4	"	
8	"		"	"	4		29.75	73	70	65		"	"	5	"	
9	"		N.N.E.	N.N.E.	3		29.78	72	68	65		"	"	7	"	
10	"		"	"	3		29.80	72	68	65		"	"	6	"	
11	"		"	"	2		29.80	72	68	64		"	"	7	"	
Mid.	"		"	"	1		29.80	72	68	64		"	Cis	8	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at Sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Saturday. June 14. 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and drizzling first part of watch, clearing latter part, Bright moonlight. Barometer falling. Aneroid at end of watch 29.93.

C. P. Rees Lieut

4 to 8 A.M. Weather unsettled. Light S.E winds. Barometer steady. At 7.00 made dress signal for men. At 7.30 made dress signal for officers Aneroid 29.93.

[illegible] Ensign

8 A.M. to Meridian. Weather pleasant, Light breeze from S.W. Barometer steady. Mustered and inspected at quarters at 9.30. Loosed sail at 9.00; shortened sail at 11.00 and furled it at 11.30. Received on board from Alert. Wm. Nevin (Lamplighter) for passage to the United States, and discharge, and Thomas Thornton (2 C.M.) for duty on this ship. At 8.10 made signal No 1870, at 9. No. 5456, at 10.50. No 5955 and at 11.30. No 4826. Aneroid barometer 29.94 Placed John M. Mitchell (B.M.) under sentry's charge for safe keeping by order of Commanding Officer.

Karl Rohrer, Lieut

Meridian to 4 P.M. Weather clear and pleasant, Wind light and variable. Called all hands to muster at 1.10 and read finding of Summary Court in the case of Harvey Lake (P.M.) In accordance with sentence placed him in solitary confinement for thirty days with three months extra police duties. Also three months loss of pay referred to the Secretary of the Navy. By order of Rear-Admiral Davis transferred John Davidson (Lands.) to the U.S.S. "Alert." Aneroid at end of watch 29.93.

C. P. Rees Lieut

4 to 8 P.M. Weather clear and pleasant, Light to moderate breeze from S.W. to N. Barometer steady. At 7.30 made signal No. 2373. Aneroid barometer 29.99.

Karl Rohrer, Lieut

8 P.M. to Midnight, Weather clear and pleasant, Light airs from N'd and E'd. Barometer steady. Aneroid at end of watch 30.00

C. P. Rees Lieut

Moon l. mer.
Dec 7° 49' 04" S.
Phase, Full moon,

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Nagasaki. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			E.N.E	E.N.E.	1		29.80	69	68	64		bc	Cir	8	S	
2	"		"	"	1		29.80	69	67	64		"	"	8	"	
3	"		"	"	1		29.80	69	66	64		"	Cir Cum	6	"	
4	"		"	"	1		29.80	69	66	64		"	"	6	"	
5	"		N.N.E	N.N.E.	2		29.82	69	66	63		"	Cum & Cir Cum	4	"	
6	"		"	"	2		29.84	69	66	64		"	"	6	"	
7	"		"	"	2		29.87	69	68	64		"	"	6	"	
8	"		"	"	2		29.87	69	68	64		"	"	6	"	
9	"		"	North	1		29.87	74	71	67		"	"	6	"	
10	"		"	"	1		29.87	74	71	67		"	"	5	"	
11	"		"	"	1		29.87	74	71	67		"	"	5	"	
Noon.	"		S.W.	S.W.	1		29.87	75	73	68		"	"	5	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water distilled during the preceding 24 hours 400 "

Water remaining on hand fit for use at Noon 700 "

Coal consumed during the preceding 24 hours tons 1720 lbs.

Coal remaining on hand at Noon 121 " 910 "

P. M.																
1	"		S.W	S.S.W	2		29.89	75	74	69		bc	Cir Cum	6	"	
2	"		"	"	2		29.89	75	74	69		"	"	7	"	
3	"		"	"	1		29.89	75	74	69		"	"	7	"	
4	"		"	"	1		29.89	75	74	69		"	"	7	"	
5	"		"	"	1		29.88	76	75	69		"	"	6	"	
6	"		"	"	1		29.88	76	75	69		"	"	3	"	
7	"		"	"	1		29.88	75	75	69		"	Cum & Cir Cum	2	"	
8	"		"	"	1		29.88	75	74	69		"	"	2	"	
9	"		"	Calm	0		29.90	75	75	71		"	"	2	"	
10	"		"	N.W	0-1		29.92	75	75	71		"	"	3	"	
11	"		"	"	0-1		29.92	76	75	71		"	"	2	"	
Mid.	"		"	W.	0-1		29.91	76	75	71		"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at Sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Sunday June 15. 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, Light E.N. airs Aneroid barometer 30.03.

R.O. Bitler Ensign

4 to 8 A.M. Clear and pleasant weather. Light breeze from N.N.E. Barometer rising. Made dress signal for crew at 7 and for officers at 7.30. Received on board for crew 136 3/4 lbs fresh beef, 138 3/4 lbs vegetables and 111 loaves of bread. Aneroid barometer 30.09. Started fires for distilling at 5.45

Karl Rohrer Lieut

8 A.M. to Meridian. Weather clear and pleasant. Light breeze from Nd shifting to S.W. Barometer steady. By order of Commanding Officer released Henry Gilbert (S.M.H.) and Matthew Reilly (Lds) from confinement The Commanding Officer inspected the ship and crew at quarters at 9.30 Distilling. Aneroid at end of watch 30.08. By order of Commanding Officer placed James Williams, (Jof D) (brought on board drunk by police authorities) in double irons and paid twenty dollars reward for his arrest

J.H. Lee Lieut

Meridian to 4 P.M. Clear and pleasant with light airs to light breeze from S.S.W. Aneroid barometer 30.04. Distilling

R.O. Bitler Ensign

4 to 8 P.M. Weather clear and pleasant, Light airs from Sd and Wd Barometer steady, Aneroid, at end of watch 30.37.

J.H. Lee Lieut

8 P.M. to Midnight. Cloudy and pleasant, Calm and light variable airs. Steamer came in and anchored. Aneroid barometer 30.04.

R.O. Bitler Ensign

Moon at mid
Dec 3° 50' 18" S.
Phase, Full moon

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES *Steamer "Essex"*, *3d* Rate, *6* Guns,

Nagasaki. Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			S.W.	Calm	0		29.88	74	74	70		bc	Cum & cir cum	4	S	
2	"		E×S.	"	0		29.87	74	73	69		"	"	4	"	
3	"		"	"	0		29.86	73	72	69		"	"	3	"	
4	"		"	"	0		29.84	73	72	69		"	"	3	"	
5	"		"	"	0		29.83	72	72	69		"	"	2	"	
6	"		"	"	0		29.80	72	72	68		ocd	Cir cum & nimbus	0	"	
7	"		"	"	0		29.79	72	71	68		ocp	"	0	"	
8	"		"	"	0		29.76	72	71	69		"	"	0	"	
9	"		"	"	0		29.73	72	71	69		"	"	0	"	
10	"		"	"	0		29.68	72	71	69		"	"	0	"	
11	"		East	ENE	0-1		29.66	72	71	68		"	"	0	"	
Noon.	"		"	"	1-2		29.66	74	71	68		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours *300* gallons.

Water *distilled* during the preceding 24 hours *2700* "

Water remaining on hand, fit for use at Noon *3100* "

Coal consumed during the preceding 24 hours *1* tons *1350* lbs.

Coal remaining on hand at Noon *119* " *1800* "

P. M.																
1	"		S.W.	SW×S.	4-6		29.58	74	73	73		ocgr	Cum & nimbus	0	"	
2	"		"	"	3-5		29.58	76	73	73		"	"	0	"	
3	"		"	"	3-5		29.56	76	74	73		"	"	0	"	
4	"		"	"	3-5		29.56	76	74	73		"	"	0	"	
5	"		"	S.W.	2-4		29.56	74	73	72		ocg	"	0	"	
6	"		"	"	2-4		29.56	73	72	71		"	"	0	"	
7	"		W×S.	W.	3		29.56	73	71	70		bc	Cir cum & nimbus	2	"	
8	"		"	"	2		29.56	73	70	69		"	"	1	"	
9	"		N×W	"	2		29.60	73	69	66		"	"	1	"	
10	"		"	"	2		29.64	73	68	65		"	"	3	"	
11	"		"	"	2		29.68	72	68	65		"	"	5	"	
Mid.	"		"	"	2		29.70	72	68	65		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at Sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,

Monday June 16, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, calm, light rain shower last hour. Distilling. Aneroid barometer 30.00.

W. M. Irwin WMI Lieut

4 to 8. A.M. Weather overcast and rainy. Calm. Barometer falling. Aneroid at end of watch 29.95. Distilling.

Rees Lieut

8 A.M. to Meridian Rainy weather. Calm and light breeze from E.N.E. Received visit from H.M.S. "Sapphire" notifying us of her departure. "Sapphire" left the harbor. By order of Commanding Officer released James Williams (J of D) from confinement. At 8.20 stopped distilling and hauled fires. Aneroid barometer at end of watch 29.83.

R. O. Bitler ROB Ensign

Meridian to 4 P.M. Overcast cloudy and rainy. Strong breeze from S.W. by S. with frequent squalls. At 2h. sent down topgallant yards and housed topgallant masts. H.B.M.S. "Sapphire" came in and anchored. Barometer falling. Aneroid barometer 29.77.

W. M. Irwin Lieut

4 to 8. P.M. Overcast, squally first two hours, cloudy last two hours. Light to moderate breeze from S.W. to West. At 4.45 mustered at quarters. At 7.15 hoisted our colors. Japanese man of war coming in. Aneroid barometer 29.82.

R. O. Bitler ROB Ensign

8 P.M. to Midnight, Weather clearing. Gentle breeze from West. Barometer rising. Aneroid barometer 29.92.

W. M. Irwin Lieut

Moon [illegible] Examined and found to be correct.
Dec 0° 25' 24" N.
Phase, Full moon,

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Nagasaki. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
Anchored			N	N.	2		29.75	71	67	65		bc	Cir Cum	7	S	
2	"		"	"	2		29.75	71	67	65		"	"	4	"	
3	"		"	"	1		29.76	71	67	65		"	"	5	"	
4	"		N.N.E.	"	1		29.78	71	67	65		"	"	6	"	
5	"		"	N.N.E.	1		29.82	69	66	64		"	Cir Cum & strat	6	"	
6	"		"	"	1		29.86	69	66	64		"	"	6	"	
7	"		"	"	0-1		29.90	68	67	65		"	"	5	"	
8	"		"	"	0-1		29.90	69	67	65		"	Cir Cum	5	"	
9	"		N.E.	"	1		29.90	70	69	65		"	"	4	"	
10	"		"	"	1		29.90	70	71	66		"	"	4	"	
11	"		W	S.W	1		29.92	71	71	67		"	"	3	"	
Noon.	"		"	"	1		29.92	72	72	67		"	"	3	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2800. "

Coal consumed during the preceding 24 hours 2 tons 1420 lbs.

Coal remaining on hand at Noon 117 " 380 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		SW×S.	S.W×S.	1		29.93	73	72	67		bc	Cir Cum	3	"	
2	"		"	"	1		29.93	73	72	67		"	"	4	"	
3	"		"	"	1		29.91	74	73	68		"	"	4	"	
4	"		"	"	1		29.91	74	73	68		"	"	4	"	
5	"		"	"	1		29.91	74	73	68		"	"	3	"	
6	"		"	W.	1		29.91	75	74	68		"	"	3	"	
7	"		"	Calm	0		29.91	75	74	68		"	"	2	"	
8	"		"	"	0		29.93	75	74	68		"	"	2	"	
9	"		N.N.E	"	0		29.93	75	73	69		"	"	7	"	
10	"		"	"	0		29.95	73	72	69		"	"	6	"	
11	"		"	"	0		29.95	72	70	68		"	"	4	"	
Mid.	"		"	"	0		29.95	72	70	68		"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at Sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Tuesday June 17, 1874.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, Light airs from North. Moonlight, Aneroid 30.00.
Wainwright Kellogg
WK Lieut

4 to 8 A.M. Pleasant weather. Calm to light airs from N.N.E. At 4⁴⁵ hoisted colors. H.M.S. "Sapphire" leaving the harbor. At 7⁰⁰ and 7³⁰ made dress signals. At 7³⁰ made general signal 5459. Crossed topgallant yards and loosed sail. Aneroid Barometer 30.10.
R. O. Bitler R.O.B. Ensign

8 A.M. to Meridian, Cloudy and pleasant, Light airs from N.N.E. shifting to S.W. At 9⁰⁰ called away all boats armed and equipped for distant service. Hoisted out both launches and exercised at various evolutions. Secured at 9⁵⁰ and hoisted in both launches. At 10⁰ went to quarters after which exercised divisions at great guns. Sent an officer to board the Japanese corvette "Nishin" to tender the usual courtesies. Received an official visit from Commanding Officer of Japanese corvette "Nishin". Aneroid barometer 30.10. Shortened sail at 11.
W. M. Irwin WMI Lieut

Meridian to 4 P.M. Clear and warm. Light breeze from S.W. by S. At 3³⁰ made signal 4826, and furled sail, Aneroid 30.08.
Wainwright Kellogg WK Lieut

4 to 8 P.M. Pleasant weather, Light airs from West first part, calm latter part, At 6³⁸ made signal 6143, and sent down topgallant yards. Aneroid 30.10.
W. M. Irwin
WMI Lieut

8 P.M. to Midnight, Cloudy, Pleasant, Light variable airs and calms. Aneroid 30.11
Wainwright Kellogg
WK Lieut

Moon's mid Examined and found to be correct.
Dec 4° 46′ 56″ N
Phase. Last quarter.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate, 6 Guns,

Nagasaki, Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M																
Anchored			N.E.	Calm	0		29.96	72	70	66		bc	Ci Cum	6	S	
2	〃		〃	〃	0		29.96	70	70	66		〃	〃	5	〃	
3	〃		N.N.E.	〃	0		29.96	70	68	66		〃	〃	3	〃	
4	〃		〃	〃	0		29.95	69	68	66		〃	〃	1	〃	
5	〃		〃	〃	0		29.96	70	68	66		bcz	〃	2	〃	
6	〃		〃	〃	0		29.96	70	68	66		〃	〃	1	〃	
7	〃		E.	E	1		29.96	70	68	66		〃	〃	1	〃	
8	〃		〃	〃	1		29.96	70	68	66		oc	Ci Cum & Cum	0	〃	
9	〃		〃	E.S.E.	1		29.98	70	70	68		bc	〃	1	〃	
10	〃		E.S.E	〃	1		29.98	71	71	69		〃	〃	1	〃	
11	〃		〃	〃	1		29.98	72	73	69		〃	〃	2	〃	
Noon.	〃		〃	〃	1		29.98	74	74	69		〃	〃	3	〃	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2450 "

Coal consumed during the preceding 24 hours tons 4400 lbs.

Coal remaining on hand at Noon 116 " 2220 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	〃		S.W	Calm	0		29.97	74	76	71		bc	Ci Cum	2	〃	
2	〃		〃	S.S.W	1		29.97	74	75	71		〃	〃	2	〃	
3	〃		〃	〃	1		29.96	75	75	71		〃	〃	3	〃	
4	〃		〃	〃	1		29.96	75	75	71		〃	〃	3	〃	
5	〃		〃	〃	1		29.95	75	75	71		〃	〃	3	〃	
6	〃		〃	〃	1		29.95	75	75	71		〃	〃	2	〃	
7	〃		E.N.E	Calm	0		29.95	75	75	71		oc	〃	0	〃	
8	〃		〃	〃	0		29.93	75	75	71		〃	〃	0	〃	
9	〃		E.S.E.	Var	0-1		29.96	75	76	71		〃	〃	0	〃	
10	〃		N.E	〃	0-1		29.98	74	75	71		〃	〃	0	〃	
11	〃		〃	〃	0-1		29.98	74	75	71		〃	〃	0	〃	
Mid.	〃		S.W.	〃	0-1		30.00	74	74	71		〃	〃	0	〃	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at Sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Wednesday, June 18, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Fair, cool, and calm. Barometer steady. Aneroid at end of watch 30.32.

W. C. Muir Ensign.

4 to 8 A.M. Cloudy and hazy. Calm first part, light airs from East latter part. At 7^{00} and 7^{30} made dress signals. At 7^{50} made general signal 6069. "Alert" answered; and at 7^{55} crossed topgallant and royal yards and bent the gear, having previously bent the light sails. Mail steamer from Shanghai arrived. Aneroid barometer 30.15.

W. M. Irwin
WMI Lieut

8 A.M to Meridian. Cloudy, warm, Light variable breeze and calms. At 9^{30} mustered at quarters, At 9^{40} called "all hands" and exercised at making, reducing, reefing and furling. At 10^{15} sent down topgallant and royal yards, unbent the light sails and crossed the yards again. Commanding Officer paid official visit to Japanese corvette Nishin Aneroid 30.14.

Wainwright Kellogg
WK Lieut

Meridian to 4 P.M. Cloudy and warm, Calm to light S.S.W. airs. Barometer falling slowly. Aneroid at end of watch 30.11.

W. C. Muir Ensign

4 to 8 P.M. Cloudy Warm, Light variable airs and calms. At 4^{45} mustered at quarters. At 6^{30} made signal 6068. Sent down topgallant and royal yards. Aneroid 30.10.

Wainwright Kellogg
WK Lieut

8 P.M to Midnight, Overcast and threatening. Light variable airs. Rising barometer. Aneroid 30.15.

W. C. Muir Ensign

Moon's Decl
Dec 9° 00′ 31″ N.
Phase. Last quarter

Examined and found to be correct.

W. S. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate, 6 Guns,

Nagasaki, Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M																
Anchored			S.E	Calm	0		30.00	73	75	71		oc	Ci Cum Cum Stratus	0	S.	
2	"		"	"	0		30.00	73	75	71		"	"	0	"	
3	"		"	E.N.E.	1		29.98	72	74	71		ocd	"	0	"	
4	"		"	N.E.	1		29.96	72	73	70		"	"	0	"	
5	"		N.N.E.	Calm	0		29.95	73	73	71		"	"	0	"	
6	"		"	"	0		29.95	73	73	71		ocr	"	0	"	
7	"		"	"	0		30.00	73	73	71		oc	"	0	"	
8	"		"	"	0		30.03	73	73	71		ocr	"	0	"	
9	"		"	"	0		30.05	75	74	72		ocd	"	0	"	
10	"		"	E x S	1		30.06	75	74	72		"	"	0	"	
11	"		S.S.E	"	1		30.06	75	72	72		ocr	"	0	"	
Noon.	"		"	"	1		30.06	75	74	72		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 350 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 2100 "

Coal consumed during the preceding 24 hours tons 400 lbs.

Coal remaining on hand at Noon 116 " 1820 "

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		S.S.E.	S.E.	1		30.05	75	74	72		bcp	Ci Cum nimbus	2	"	
2	"		"	"	1		30.05	75	74	72		"	"	1	"	
3	"		"	"	1		30.05	75	74	72		ocp	Cum Nimbus	0	"	
4	"		E.S.E.	"	1		30.05	75	74	72		"	"	0	"	
5	"		"	Calm	0		30.05	74	74	72		ocd	"	0	"	
6	"		S.S.E.	W.	1		30.05	74	72	72		bc	"	2	"	
7	"		"	E.S.E.	1		30.05	71	74	72		"	"	2	"	
8	"		"	"	1		30.05	73	73	72		"	"	2	"	
9	"		E	"	1		30.06	77	75	75		"	"	5	"	
10	"		"	"	1		30.08	77	75	75		bcp	"	3	"	
11	"		E.S.E	"	1		30.09	76	74	72		bc	"	4	"	
Mid.	"		"	"	1		30.09	76	74	72		"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at Sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Thursday June 19, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast and cloudy. Calm in early part of watch. Light breeze from E N E to N E in latter part. Drizzling rain at intervals in latter part of watch. Barometer falling. The mail steamer for Yokohama left the harbor. Aneroid barometer 30.10.

Karl Rohrer, Lieut

4 to 8 A.M. Cloudy. Light showers of drizzling rain. Calm. At 7 and 7.30 made uniform signals. Aneroid 30.20.

Wainwright Kellogg Lieut

8 A.M. to Meridian. Overcast and drizzly. Light airs from E by S. Barometer rising slowly. At 9.30 mustered at quarters for inspection after which had divisional instruction. Aneroid at end of watch 30.20.

W. C. McMinn Ensign

Meridian to 4 P.M. Weather unsettled. Light breeze from S. E. Light passing showers of rain during watch. Barometer steady. Cirro-cumulus, cumulus and nimbus clouds. Aneroid barometer 30.21

Karl Rohrer, Lieut

4 to 8 P.M. Clearing weather. Light westerly airs, hauling to E S E latter part of watch. Barometer steady. Aneroid 30.20.

W. C. McMinn Ensign

8 P.M. to Midnight. Weather pleasant. Light passing showers in second hour of watch. Light breeze from E S E. Barometer rising. Aneroid barometer 30.25.

Karl Rohrer, Lieut

Moonlenid
Dec. 12° 49' 10" N.
Phase. Last quarter.

Examined and found to be correct.

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate, 6 Guns,

Nagasaki, Japan

Hour.	Knots.	Fathoms.	Courses steered.	WINDS. Direction.	WINDS. Force.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air Dry Bulb.	TEMPERATURE. Air Wet Bulb.	TEMPERATURE. Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A. M.																
Anchored			S. S. E.	Calm	0		30.09	75	74	72		oc	Cum & nimb	0	S	
2	"		"	"	0		30.08	74	74	72		"	"	0	"	
3	"		"	SE	1		30.07	74	74	72		"	"	0	"	
4	"		"	"	1		30.06	74	74	73		ocr	"	0	"	
5	"		"	Calm	0		30.06	74	75	73		"	"	0	"	
6	"		"	S. S. E.	1		30.06	75	76	75		oc	"	0	"	
7	"		"	"	1		30.07	75	76	75		ocr	"	0	"	
8	"		"	"	1		30.08	75	76	75		oc	"	0	"	
9	"		S×W	S×W	1-2		30.08	76	76	75		ocq	"	0	"	
10	"		"	SW.	1-3		30.08	77	77	76		bcq	Cum & Cir cum	1	"	
11	"		"	"	1-3		30.08	78	77	76		ocpq	Cir Cum & strat	0	"	
Noon.	"		S. S. W.	S. S. W.	2-4		30.08	78	77	76		"	"	0	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ′ ″

Longitude by D. R. at Noon ° ′ ″

Latitude by Observations at Noon ⊙ ° ′ ″

Longitude by Chronometer from Forenoon Observations ⊙ ° ′ ″

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at ° ′ ″

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for use at Noon 1800. "

Coal consumed during the preceding 24 hours tons 1400 lbs.

Coal remaining on hand at Noon 116 " 1420 "

P. M.																
1	"		SW	SW.	2-4		30.08	79	79	77		bcpq	Cum & nimb	1	"	
2	"		"	"	2-4		30.07	82	79	77		bcq	"	2	"	
3	"		"	"	3-5		30.06	80	79	77		ocd	"	0	"	
4	"		"	"	3-5		30.06	80	79	77		"	"	0	"	
5	"		"	"	2-4		30.06	79	78	76		ocq	"	0	"	
6	"		"	"	2-4		30.05	78	78	76		"	"	0	"	
7	"		"	"	2-4		30.04	78	78	76		"	"	0	"	
8	"		"	"	2-4		30.04	78	78	76		"	"	0	"	
9	"		S. S. W	S. S. W	2-4		30.03	78	77	75		"	"	0	"	
10	"		"	"	2-4		30.03	78	77	75		"	"	0	"	
11	"		"	"	3-5		30.03	78	77	75		"	"	0	"	
Mid.	"		"	"	3-5		30.03	78	77	75		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ′ ″

Longitude by Chronometer from Observations * ° ′ ″

Variation of the Compass by Amplitude observed at Sunset ° ′ ″

Variation of the Compass by at ° ′ ″

under the command of Commander A. H. McCormick, U. S. Navy,
Friday, June 20th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and till 4 A.M. Weather overcast and rainy. Light variable airs and calms. Barometer falling. Aneroid at end of watch 30.30.

C. Akers Lieut

4 to 8 A.M. Cloudy and rainy: Calm to light S. S. E airs, Barometer rising slowly. Aneroid at end of watch 30.33 Made dress signals at 7.00 and 7.30. A.M.

W. C. M. Ensign.

8 A.M to Meridian. Weather squally. Occasional passing showers. Barometer steady. Breeze light to moderate from S by W to S. W. At 9.30 mustered and inspected crew at quarters and gave oral instruction in gunnery. By order of Commanding Officer John C. Coban. (O.S.) was confined in double irons for safe keeping and then released for a hearing at the mast in his case, John C. Coban (O.S) was disrated to 1 C Boy, from this date by order of Commanding Officer for absenting himself from the ship without leave, Received on board from "Alert" Chas. Judge, (Q. G.) he having been condemned by Medical Survey to be sent home and discharged, Aneroid Barometer 30.22

Karl Rohrer Lieut

Meridian to 4 P.M. Weather cloudy and squally with passing showers of rain. Barometer falling. Aneroid at end of watch 30.19.

C. Akers Lieut

4 to 8. P.M. Weather overcast and squally. Breeze light to moderate in squalls from S.W. Barometer falling. At 4.45 mustered crew at quarters. Aneroid barometer 30.17

Karl Rohrer Lieut

8 P.M to Midnight. Weather overcast and squally. Wind from S.W. Barometer steady. Aneroid at end of watch 30.18.

C. Akers Lieut

Moon's mid Examined and found to be correct.
Dec 15° 54' 30". N.
Phase, Last quarter

W. H. Parker
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex 3d Rate, 6 Guns,
Nagasaki. Japan.

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M																
Anchored			S.S.W	S.S.W	3-5		30.04	78	77	76		ocg	Cir Cumu & nimbus	0	S	
2	"		"	"	2-4		30.04	78	77	76		"	"	0	"	
3	"		"	"	2-4		30.03	78	77	76		"	"	0	"	
4	"		"	"	3-4		30.02	78	77	75		"	"	0	"	
5	"		"	"	3-4		30.02	77	76	74		"	"	0	"	
6	"		"	"	3-4		30.02	77	76	74		"	"	0	"	
7	"		"	"	3-4		30.02	77	76	74		"	"	0	"	
8	"		"	"	3-4		30.02	77	76	75		"	"	0	"	
9	"		"	"	2-4		30.02	77	76	75		"	"	0	"	
10	"		"	"	2-4		30.02	77	76	75		ocgd	"	0	"	
11	"		"	"	2-4		30.01	77	75	74		"	"	0	"	
Noon.	"		"	"	2-4		30.00	77	75	74		ocg	"	0	"	

Distance run by Log since preceding Noon knots fathoms.
Latitude by D. R. at Noon ° ' "
Longitude by D. R. at Noon ° ' "
Latitude by Observations at Noon ⊙ ° ' "
Longitude by Chronometer from Forenoon Observations ⊙ ° ' "
Current during the time knots fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "
Variation of the Compass by Azimuth ⊙ observed at ° ' "
Water expended during the preceding 24 hours 330 gallons.
Water during the preceding 24 hours "
Water remaining on hand fit for use at Noon 1470 "
Coal consumed during the preceding 24 hours tons 1 1400 lbs.
Coal remaining on hand at Noon 116" 1020 "

Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
P. M.																
1	"		S.S.W.	S.S.W	2-4		30.00	77	76	75		ocg	Cir Cumu nimbus	0	S	
2	"		"	"	2-4		29.98	77	76	75		"	"	0	"	
3	"		"	"	2-4		29.98	77	76	75		"	"	0	"	
4	"		"	"	3-4		29.98	77	76	75		ocgd	"	0	"	
5	"		"	"	3-4		29.96	78	76	75		ocg	"	0	"	
6	"		"	"	3-4		29.94	79	76	75		"	"	0	"	
7	"		"	"	2-3		29.94	79	76	75		"	"	0	"	
8	"		"	"	2-3		29.94	79	76	75		"	"	0	"	
9	"		"	"	2-4		29.94	77	76	75		"	"	0	"	
10	"		"	"	2-4		29.94	77	77	75		"	"	0	"	
11	"		"	"	2-4		29.94	77	77	75		"	"	0	"	
Mid.	"		"	"	3-5		29.94	77	76	74		"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "
Longitude by Chronometer from Observations * ° ' "
Variation of the Compass by Amplitude observed at Sunset ° ' "
Variation of the Compass by at ° ' "

under the command of Commander A. H. McCormick, U. S. Navy,
Saturday. June 21, 1884

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and squally. Wind from S. S. W. Aneroid barometer at end of watch 30.15.

R. O. Bitler R.O.B. Ensign.

4 to 8. A.M. Weather overcast and squally. Barometer steady. Breeze light to moderate in squalls from S. S. W. Received on board for crew 140 lbs fresh beef, 140 lbs vegetables and 112 loaves of bread. Aneroid barometer 30.17. By order of Commanding Officer placed Henry Kern, (1st) under sentry's charge for safe keeping until his case is examined.

Karl Rohrer, Lieut

8 A.M. to Meridian. Weather overcast and squally with light drizzling showers of rain. Barometer falling. Mustered at quarters at 9.30. Aneroid at end of watch 30.15.

Lieut

Meridian to 4 P.M. Overcast and squally with light drizzling rain last hour. Winds from S. S. W. Aneroid barometer at end of watch 30.11.

R. O. Bitler R.O.B. Ensign

4 to 8. P.M. Weather overcast and squally. Barometer falling. At 4^{50} exchanged numbers with the U. S. S. Enterprise, bearing the pennant of Rear Admiral J. L. Davis. Comd'g Asiatic Station. Hauled down Senior Officer's pennant. At 5^{15} exchanged numbers with the U. S. S. Juniata. At 5^{07} the flagship made No. 1870 and at 5^{10} No 6144. Crossed topgallant yards at 5^{15}. The Enterprise moored ship at 5^{15} and the Juniata at 5^{30}. At 5^{25} the Japanese man of war fired a salute of 13 guns with the American flag at the fore; the Enterprise answered gun for gun with the Japanese flag at the fore. In obedience to orders of Rear Admiral Davis moored ship beginning at 6^{05} and finishing at 7^{35}, with 45 fathoms on port chain and 30 on starboard. Aneroid at end of watch 30.18.

Lieut

8 P.M. to Midnight. Overcast and squally. Wind from S. S. W. Aneroid barometer at end of watch 30.09.

R. O. Bitler R.O.B. Ensign

Moon l. mid
Dec 17° 58' 42" N.
Phase. Last quarter.

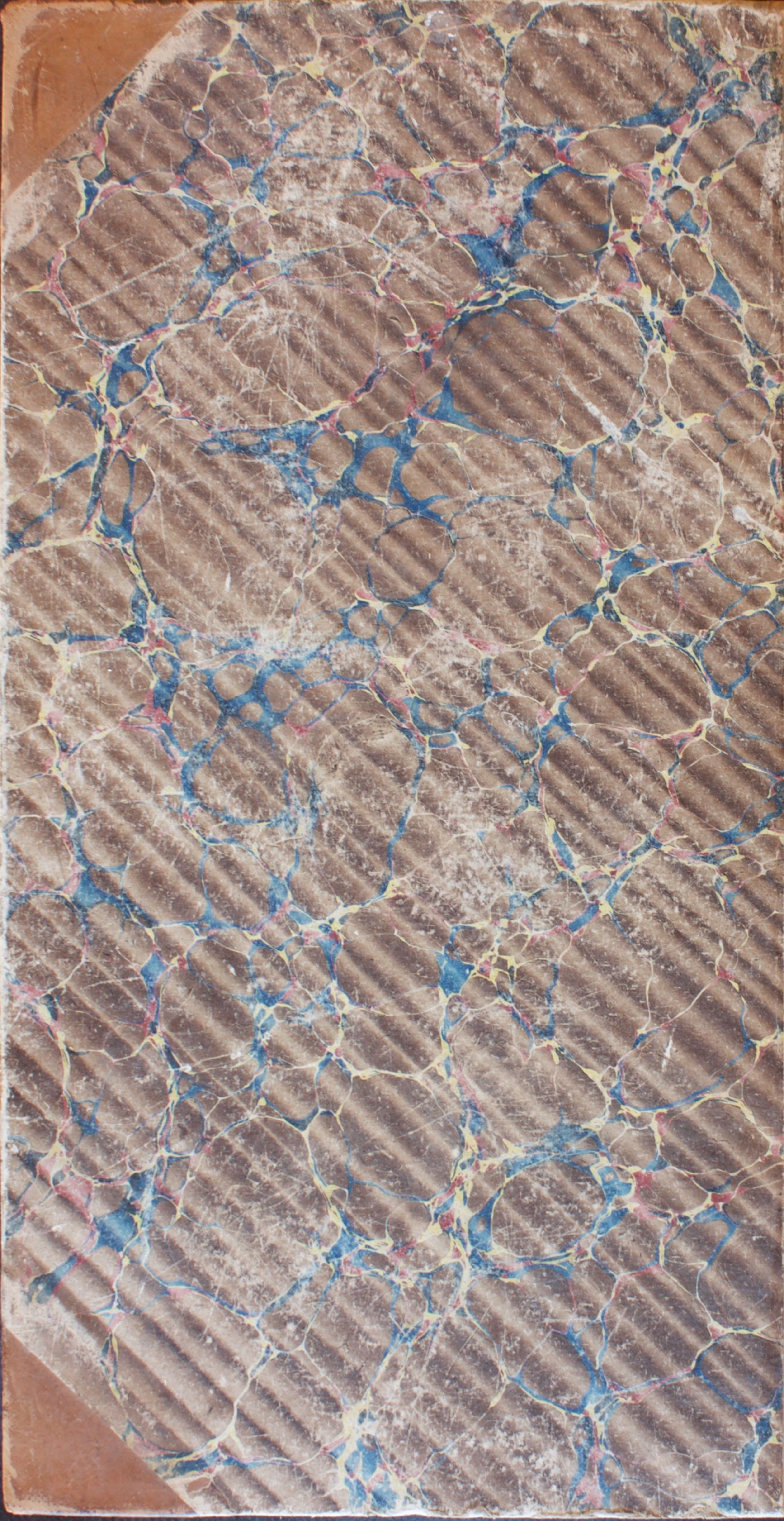
Examined and found to be correct.

W. J. Parker
Lieut & Navigator.

[illegible]

[illegible] 18[illegible] A. L. [illegible]

[illegible]

[illegible]